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METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS

1ST JULY TO 31ST DECEMBER, 1899.

DAILY WEATHER REPORT.

July to December 1899.

E. Weller & Grahams Ltd Litho London

DAILY WEATHER REPORT

for 8 a.m. on Saturday, 1st July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda	29.97	65	L	0	b	30.04	+.02	61	55	-6	SW	2	c	*	b	*	81	59	-
	Hernösand	29.99	49	L	0	b	29.97	.00	53	50	-3	N	2	c	*	b	*	61	46	0.08
	Stockholm	29.97	59	SSE	2	0	29.91	-.06	66	58	+3	SE	4	0	*	0	*	72	48	-
	Wisby	29.97	60	SSE	4	bc	29.90	-.07	66	58	+9	SSE	6	c	*	bc	*	?	52	-
	Karlstad	29.86	63	NE	2	r	29.74	-.17	56	54	-4	ESE	4	r	*	r	*	*	*	0.24
	Bodö	29.89	65	E	4	bc	29.86	-.11	68	60	+1	E	4	b	1	bc	*	75	57	-
	Christiansund ...	29.73	55	WSW	1	f	29.66	-.12	56	55	-6	NE	2	f	1	f	*	62	52	-
	Skudesnaes ...	29.70	59	S	6	0	29.69	-.06	56	53	-5	SSW	4	0	2	0	*	68	54	*
	Færder	29.79	61	SE	2	0	29.68	-.18	60	59	-4	SW	4	0	3	0	*	64	59	0.47
	The Scaw	29.78	60	WSW	1	r	29.76	-.06	58	56	-7	WSW	2	m	0	r	*	65	57	0.79
	Fanö	29.82	60	W	2	c	29.80	+.04	57	55	-5	WSW	4	b	*	c	*	64	55	0.04
BRITISH ISLANDS	Sumburgh Head ...	29.72	54	N	1	0	29.67	-.18	53	52	+1	NW	1	0	2	0	*	57	50	-
	Stornoway	29.62	57	SE	3	0	29.46	-.27	57	54	+1	SE	3	0	3	0	4.7	60	50	-
	Wick	29.69	56	S	1	bc	29.53	-.26	54	52	-4	SE	2	0	1	bc	*	67	50	-
	Nairn	29.64	64	E	1	b	29.49	-.30	55	52	-4	E	1	0	1	b	*	65	51	-
	Aberdeen	29.71	56	SSE	4	Bc	29.50	-.31	53	52	-5	ENE	3	ogr	3	bc	11.0	63	51	0.01
	Leith	29.68	61	SW	1	0	29.43	-.41	56	55	-4	E	2	r	*	0	*	64	52	0.07
	Shields	29.72	56	SE	3	0	29.42	-.45	54	54	-1	ESE	1	0	2	c.or	*	65	51	0.12
	Spurn Head ...	29.76	58	SE	5	c	29.44	-.45	59	57	+2	SW	4	0	3	c,r	*	65	54	0.14
	Loughborough ...	29.79	65	SSW	2	0	29.49	-.46	60	57	0	SSW	3	om	*	c,or,c	*	70	54	0.24
	Malin Head ...	29.49	55	S	6	0	29.42	-.35	56	55	0	SE	1	0	1	r,0	*	59	54	0.03
	Belmullet	29.52	59	SW	4	0	29.60	-.13	56	53	0	NW	5	bc	*	om,0	*	60	52	0.53
	Donaghadee ...	29.65	54	S	4	ru	29.42	-.31	54	54	-1	E	2	ogm	3	r	*	60	53	0.26
	Liverpool (Bidston).	29.72	58		1	r	29.45	-.48	58	56	+1	SW	1	0	2	c,r	*	64	53	0.38
	Holyhead	29.66	56	S	4	dm	29.45	-.48	56	55	-1	W	4	c	3	omp,dm	*	60	53	0.05
	Parsonstown ...	29.58	61	SW	1	0	29.50	-.36	55	53	-3	W	2	r	*	0	1.3	63	52	0.07
	Valencia	29.60	57	SW	1	p	29.69	-.07	56	51	-1	WNW	6	0	6	omp	0.3	62	53	0.22
	Roche's Point ...	29.64	62	WSW	4	0	29.61	-.26	57	53	-1	NW	5	bc	4	r.o	*	63	52	0.10
	Pembroke	29.72	58	SW	4	r	29.57	-.41	56	54	-1	W	6	oq	5	r	2.8	60	54	0.17
	Scilly	29.75	60	WSW	5	r	29.71	-.30	58	54	-3	WNW	7	c	5	r	1.2	62	54	0.22
	Portland Bill ...	29.85	56	S	7	r	29.61		58	56		W	7	r	5	r	*	64	50	0.41
	Jersey	30.00	63	SSW	4	om	29.74	-.34	59	57	-1	W	5	ogp	4	bc,om,r	*	66	56	0.42
	Dungeness	29.92	59	SW	4	c	29.60	-.37	59	58	-1	SW	5	o	4	b,c	*	65	56	0.29
	London (Brixton) ...	29.89	62	SSW	3	0	29.56	-.43	61	58	+1	SW	2	c	*	c.or.llp	5.2	73	55	0.44
	Oxford	29.77	55	S	4	r	29.52	-.46	57	56	-2	S	3	r	*	bc.r.t	*	69	52	0.54
	Yarmouth	29.83	63	S	4	bc	29.52	-.39	60	57	0	SW	3	bc	3	bc.r	*	66	54	0.32
GERMANY.	Cuxhaven	29.87	59	W	4	0	29.84	+.07	54	51	-8	S	3	b	*	0	*	63	50	-
	Berlin	29.89	63	WNW	2	0	29.97	+.15	60	57	-3	WNW	2	bc	*	0	*	72	58	0.04
	Wiesbaden	*	*	*	*	*	29.94	+.04	57	55	-6	NW	3	0	*	*	*	70	51	1.97
	Munich	?	55	?	4	c	30.09	+.15	58	55	-7	W	3	c	*	c	*	70	51	0.87
FRANCE & NETHERLANDS.	The Helder ...																*			
	Brussels	*	*	*	*	*	29.75	-.20	55	54	-5	SSW	4	r	*	c	*	70	53	0.43
	C. Gris Nez ...	29.95	58	SW	3	0	29.67	-.31	59	57	+2	W	6	0	6	0	*	64	55	0.43
	Paris	30.02	68	SW	2	0	29.84	-.19	59	58	+2	S	4	r	*	0	*	72	55	0.28
	Brest	29.91	59	SW	4	r	29.82	-.28	58	55	-1	W	4	c	4	r	*	63	54	0.28
	Lorient	30.04	61	WSW	5	r	29.88	-.26	59	59	-2	W	6	c	7	r	*	75	55	0.85
	Rochefort	30.14	66	W	4	bc	29.96	-.17	64	61	+4	NW	5	0	*	bc	*	72	60	0.08
	Belfort	29.98	62	W	4	c	29.99	+.01	58	54	+3	W	1	m	*	c	*	68	48	0.08
	Lyons	30.09	66	NW	2	b	30.05	+.01	59	54	+2	E	1	0	*	b	*	68	52	0.04
	Nice	29.91	58	E	4	c	29.95	+.03	63	58	+2	ENE	3	bc	2	c	*	66	54	0.16
	Perpignan	30.12	72	NW	3	b	30.13	+.03	68	60	+3	L	0	0	*	b	*	75	60	-
	Biarritz	30.20	65	W	3	b	30.09	-.07	63	57	-1	WSW	3	0	2	b	*	68	57	-
SPAN. PEN.	Corunna																*			
	Lisbon	30.22	63	NNW	6	b	30.24	+.02	66	60	+1	N	5	b	*	b	*	72	61	-
	Azores (P. Delgada)	30.49	70	NE	3	c	30.46	-.01	72	66	+2	NE	1	bc	2	c	*	77	64	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 8.0 hrs.

WEATHER CHARTS

FOR Saturday, 1st July, 1899.

BAROMETER, WIND AND SEA.

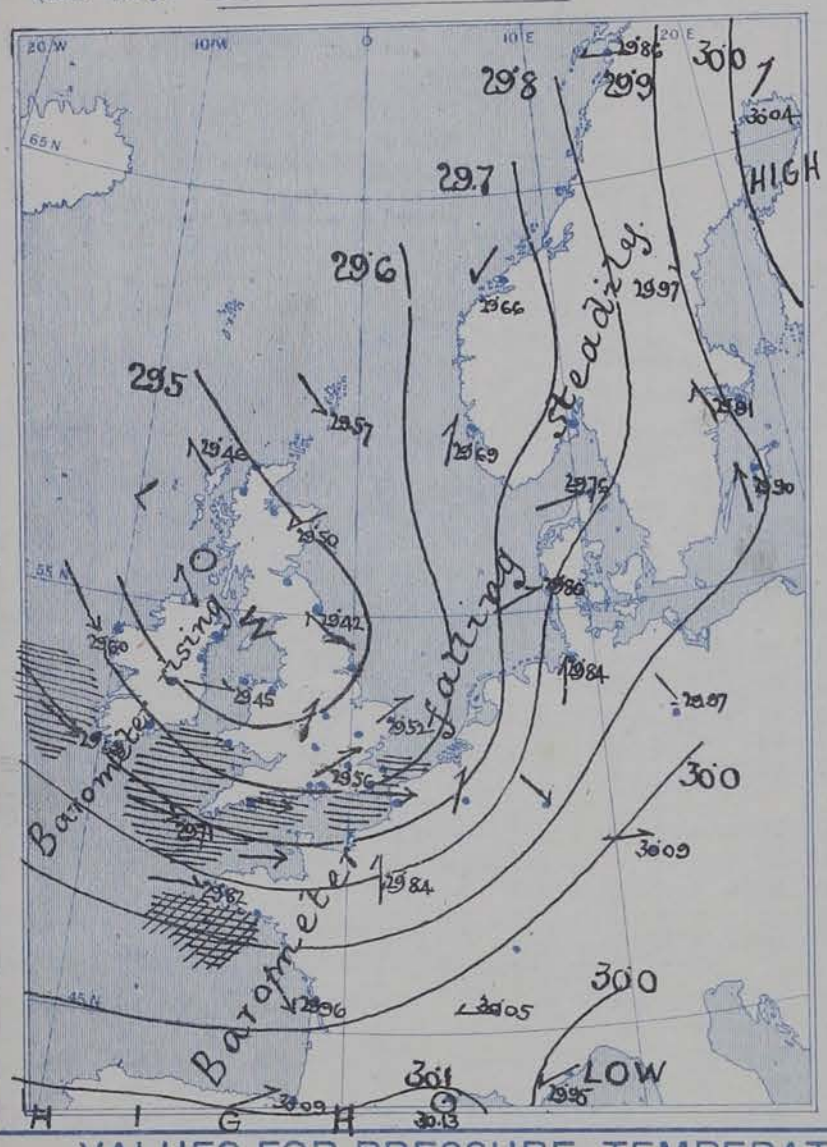
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙

Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ :

SEA.—Rough : *High*

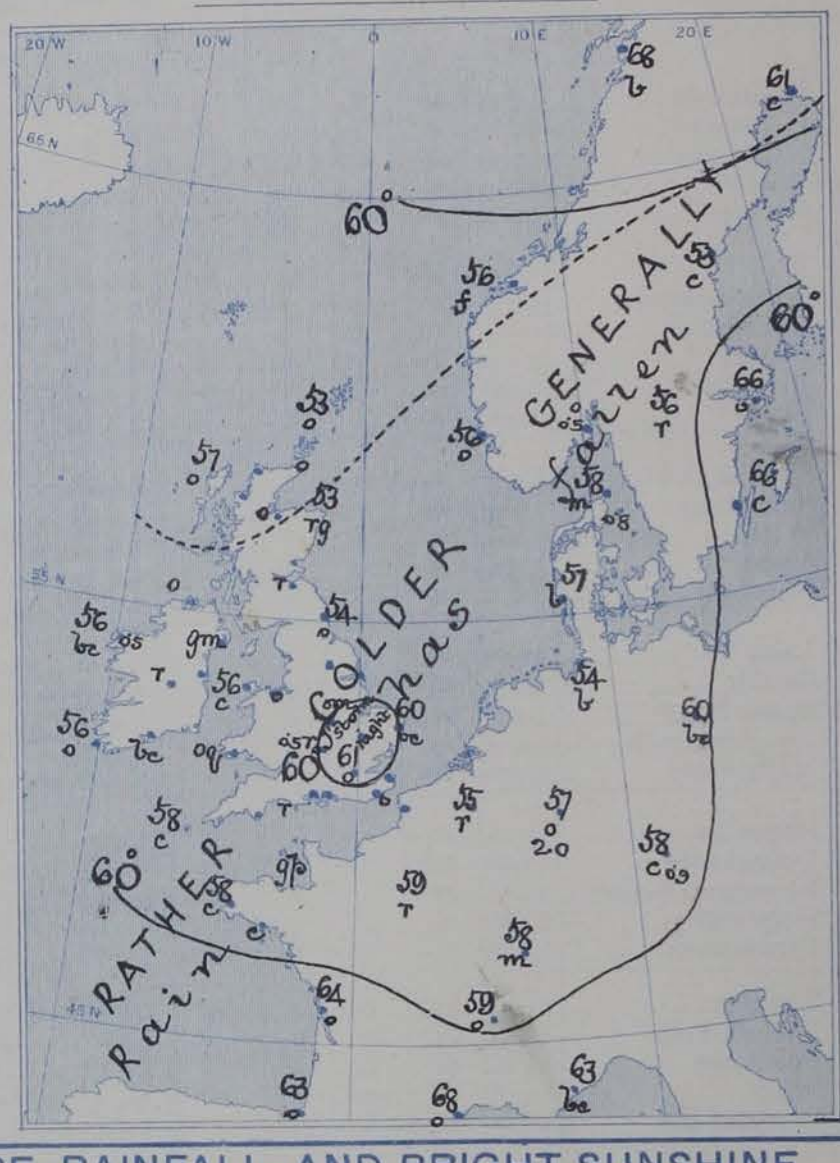


TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29·896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29.927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	—	—	—	—	—
Belmullet	29·889	57·5	54·9	62·2	53·8	—	—	—	—	3·59	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	2·82	—	—
Holyhead	29·909	58·1	55·8	63·7	54·2	83	1894	43	1888	2·37	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·99	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·98	136·5	27
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	4·23	153·8	31
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	3·18	—	—
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	2·53	199·7	40
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·47	—	—
Prawle Point	29·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·39	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·54	230·0	48
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·39	—	—
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·05	—	—
LONDON	29·953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·48	162·0†	33†
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·68	185·5	38
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·62	189·6	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, (1) 30·2 in: and more to 30·0 in: over the Iberian Peninsula and the southwest of France; (2) 30·0 in: and more over Finland and the east of Sweden.
Lowest, 29·5 in: and less, in a complex depression covering the northern parts of the United Kingdom
Gradients rather steep over the southern part of our area, slight in the north.
Barometer rising steadily at our southeastern stations, falling in the north and northeast.

TEMPERATURE

Highest, 68° to 63° in the south and southwest of France, 66° in the southeast of Sweden, 68° at Malta.
Lowest, 52° at Malin Hd., 53° at Aberdeen, 54° at Shields and Donaghadee, 55° at Parsonstown.
During yesterday the maximum readings exceeded 70° at very few of the British stations, but at several of those in France & Germany it did, the highest were 75° at Lorient and Perpignan.

WIND

NW¹, strong at the Irish stations; W³, a moderate gale, in the English Channel, SW¹ in the east of England, and SE³ - both in Scotland and the southeast of Sweden.
It blew a moderate gale from SW. at all our southern stations in the night.

WEATHER

Inclined to clear up on our southeastern and southern coasts, but still dull and showery in the east and northwest and in the south of Scandinavia.
Rain has fallen except in the north of Scotland; in the south and southeast the fall has been largest – the amount at Wiesbaden was 1·97 in:, in London 0·44 in: to 0·57 in:. Bright Sunshine measured yesterday was large (11 to 8 hours) in the north and northwest, and 11 to 10 hours on our extreme southeast coasts.

SEA

Rough at all the southern stations in our area.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north is now moving northeastwards and there is no indication of any new disturbance yet.

FORECASTS

For the 24 hours ending at NOON on 2ND JULY, 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	SE¼ to SW¼ winds, freshening; showery.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	SW¼ to NW¼ winds, strong, squally, showery – then moderate, finer and cooler.
6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	W¼ winds, strong and showery, to NW¼ moderate; finer, cooler.
WARNINGS	At 7·20 pm yesterday to districts 5 and 8 "Hoist South Cone". The signals are still flying in district 10 and part of 9.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.71	67	62	NE	2	o	1
Sumburgh Head	29.76	56	53	NNW	1	o	3
Stornoway... ...	29.70	58	54	S	4	o	4
Aberdeen	29.76	60	54	SE	3	bc	1
Shields	29.82	61	54	N	3	c	2
Malin Head ...	29.62	54	53	S	5	r	3
Belmullet	29.59	60	58	SW	5	om	*
Holyhead	29.81	59	56	SW	3	opm	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.69	61	60	WSW	4	omp	5
Scilly	29.83	60	60	SSW	5	r	3
Jersey	30.06	66	59	SSW	3	bc	3
Hurst Castle ...	30.01	64	59	SW	4	o	3
Dungeness ...	29.98	63	61	SW	4	b	3
London (Westminster)	29.93	71	59	WSW	3	bc	*
Yarmouth ...	29.92	62	56	ESE	3	bc	3
Rochefort ...	30.16	69	61	NW	4	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Continental Information not received.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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for 8 a.m. on Sunday 2nd July, **1899.**

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		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda	30·00	62	Z	0	c	30·01	− ·03	60	59	− 1	E	2	r	*	c	*	72	57	0·04
	Hernösand	29·90	52	NE	2	0	29·95	− ·02	58	54	+ 5	NE	2	b	*	o	*	59	43	—
	Stockholm	29·92	58	S	2	b	29·91	·00	58	57	− 8	E	2	r	*	b	*	72	52	—
	Wisby	29·93	59	S	4	bc	29·84	− ·06	64	59	− 2	SSE	4	o	*	bc	*	66	52	—
	Karlstad	29·87	62	SE	2	b	29·80	+ ·06	61	57	+ 5	SSE	2	bc	*	b	*	*	*	0·24
	Bodö	29·85	67	NW	4	b	29·92	+ ·06	55	57	− 3	E	4	b	1	b	*	70	55	—
	Christiansund ...	29·69	59	S	2	r	29·70	+ ·04	61	57	+ 5	ESE	2	b	1	r	*	70	54	0·20
	Skudesnaes ...	29·65	61	SSE	1	o	29·56	− ·13	58	56	+ 2	Z	0	o	2	b,o	*	61	54	*
	Færder	29·77	62	SSW	4	bc	29·71	+ ·03	58	56	− 2	ESE	6	r	3	bc	*	62	57	0·16
	The Scaw	29·74	62	S	3	m	29·66	− ·10	61	59	+ 3	S	4	r	1	m	*	72	57	0·20
	Fanö	29·63	57	S	4	c	29·56	− ·24	56	55	− 1	S	4	r	*	cr	*	68	55	0·43
BRITISH ISLANDS	Sumburgh Head ...	29·49	56	SE	2	c	29·51	− ·06	53	53	0	NE	4	r	6	c	*	59	48	0·04
	Stornoway	29·46	60	Z	0	o	29·54	+ ·08	59	54	+ 2	ENE	4	o	4	o	0·7	63	46	—
	Wick	29·49	54	S	3	bc	29·46	− ·07	55	54	+ 1	?ENE	2	r	2	bc	*	60	50	0·10
	Nairn	29·45	56	E	1	o	29·44	− ·05	55	54	0	NE	3	r	3	o	*	59	51	0·41
	Aberdeen	29·39	53	NE	6	o	29·39	− ·11	54	54	+ 1	NE	3	org	4	orgq	0·0	56	52	0·27
	Leith	29·37	54	ENE	1	r	29·39	− ·04	56	54	0	NNW	1	r	*	r	*	56	52	0·78
	Shields	29·32	58	SW	2	o	29·31	− ·11	54	54	0	WNW	3	r	2	op	*	58	52	0·23
	Spurn Head ...	29·38	61	SW	1	c	29·38	− ·06	55	54	− 4	WSW	5	op	4	cp,b	*	66	54	0·12
	Loughborough ...	29·43	62	WSW	4	c	29·50	+ ·01	54	51	− 6	W	5	oq	*	cp,orq	*	68	51	0·58
	Malin Head ...	29·47	53	NW	6	r	29·54	+ ·12	54	53	− 2	NW	5	o	4	o.r	*	60	52	0·29
	Belmullet	29·67	56	WNW	3	c	29·71	+ ·11	55	51	− 1	WNW	7	o	*	c	*	58	50	0·09
	Donaghadee ...	29·45	56	N	3	o	29·49	+ ·07	54	53	0	NW	4	opq	4	b,c	*	59	51	0·21
	Liverpool (Bidston).	29·44	58	W	4	c	29·48	+ ·03	52	51	− 6	W	7	r	5	p.c	*	62	51	0·40
	Holyhead	29·46	55	NW	7	r	29·56	+ ·11	54	52	− 2	W	7	cq	6	c.r	*	63	51	0·17
	Parsonstown ...	29·63	58	NW	1	c	29·71	+ ·21	54	50	− 1	W	2	o	*	c.r	2·7	63	47	0·02
	Valencia	29·76	57	W	5	o	29·87	+ ·18	53	50	− 3	WNW	5	op	5	c.op	2·0	59	51	0·11
	Roche's Point ...	29·70	57	NNW	5	c	29·79	+ ·18	56	52	− 1	NW	5	bcp	4	c	*	62	50	—
	Pembroke	29·60	58	WNW	6	b	29·75	+ ·18	55	53	− 1	NW	6	bc	5	b	5·0	59	50	—
	Scilly	29·76	61	W	5	c	29·80	+ ·09	57	54	− 1	NW	6	cp	4	c	8·0	63	53	0·02
	Portland Bill ...	29·65	59	WNW	8	bc	29·67	+ ·06	56	51	− 2	NW	8	c	6	bc	*	61	50	—
	Jersey	29·79	61	WSW	7	bc	29·77	+ ·03	59	54	0	WNW	5	bc	4	bcm	*	63	55	—
	Dungeness	29·56	59	WSW	7	o	29·60	·00	58	56	− 1	NW	3	c	3	o,r	*	64	55	0·30
	London	29·55	62	W	4	cp	29·59	+ ·03	57	54	− 4	WSW	4	c	*	cpq,r	4·2	70	52	0·12
	Oxford	29·54	57	WSW	4	o	29·55	+ ·06	55	50	− 2	WNW	4	bc	*	o.pq,r	*	64	51	0·26
	Yarmouth	29·54	58	SW	2	bp	29·47	− ·05	56	54	− 4	W	4	c	3	br,p	*	65	53	0·33
GERMANY.	Cuxhaven	29·65	59	S	4	b	29·61	− ·23	58	55	+ 4	SSW	5	o	*	p,b	*	66	54	0·28
	Berlin	29·80	68	SE	3	o	29·77	− ·20	64	60	+ 4	WSW	4	c	*	o	*	79	60	0·04
	Wiesbaden	*	*	*	*	*	29·73	− ·21	56	55	− 1	SW	3	o	*	*	*	66	54	0·51
	Munich	29·99	60	W	6	o	29·89	− ·20	56	55	− 2	Z	0	r	*	o	*	77	55	0·16
FRANCE & NETHERLANDS.	The Helder ...	29·52	60	SW	4	c	29·49		55	54		SW	4	r	4	c	*	64	55	0·28
	Brussels	*	*	*	*	*	29·63	− ·12	57	53	+ 2	WSW	3	o	*	o	*	66	49	0·43
	C. Gris Nez ...	29·63	59	W	7	o	29·61	− ·06	56	54	− 3	W	6	c	6	o	*	61	54	—
	Paris	29·80	65	SW	3	c	29·70	− ·14	54	54	− 5	SSW	1	r	*	br,c	*	71	54	0·43
	Brest	29·86	59	W	3	o	29·85	+ ·03	56	52	− 2	WNW	3	bc	3		*	61	52	0·04
	Lorient	29·88	58	W	5	r	29·86	− ·02	57	57	− 2	NW	5	c	5	r	*	64	55	0·46
	Rochefort	30·00	61	WNW	3	r	29·86	− ·10	59	55	− 5	NNW	5	c	*	rq	*	67	55	0·55
	Belfort	29·89	60	SW	6	o	29·71	− ·28	51	50	− 7	N	1	r	*	o	*	64	49	0·46
	Lyons	29·99	65	W	2	o	29·76	− ·29	58	57	− 1	S	4	r	*	o	*	73	56	0·16
	Nice	29·91	66	SW	2	c	29·86	− ·09	65	57	+ 2	WSW	4	c	3	c	*	73	57	—
	Perpignan	30·05	70	Z	0	d	29·91	− ·22	67	64	− 1	W	2	c	*	o	*	81	59	—
	Biarritz	30·06	65	WSW	3	o	29·97	− ·12	64	64	+ 1	WNW	6	r	5	o	*	66	61	0·12
SPAN. PEN.	Corunna	30·19	72	[illegible]	SW	b	30·12		63	61		W	3	f	5	b	*	73	55	0·08
	Lisbon	30·26	64	NNW	5	b	30·26	+ ·02	67	63	+ 1	NNW	4	o	*	b	*	79	63	—
	Azores (P. Delgada)	30·49	69	NNE	3	b	30·47	+ ·01	71	66	− 1	NE	4	b	2	b	*	77	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 5·7 *hrs.*

WEATHER CHARTS

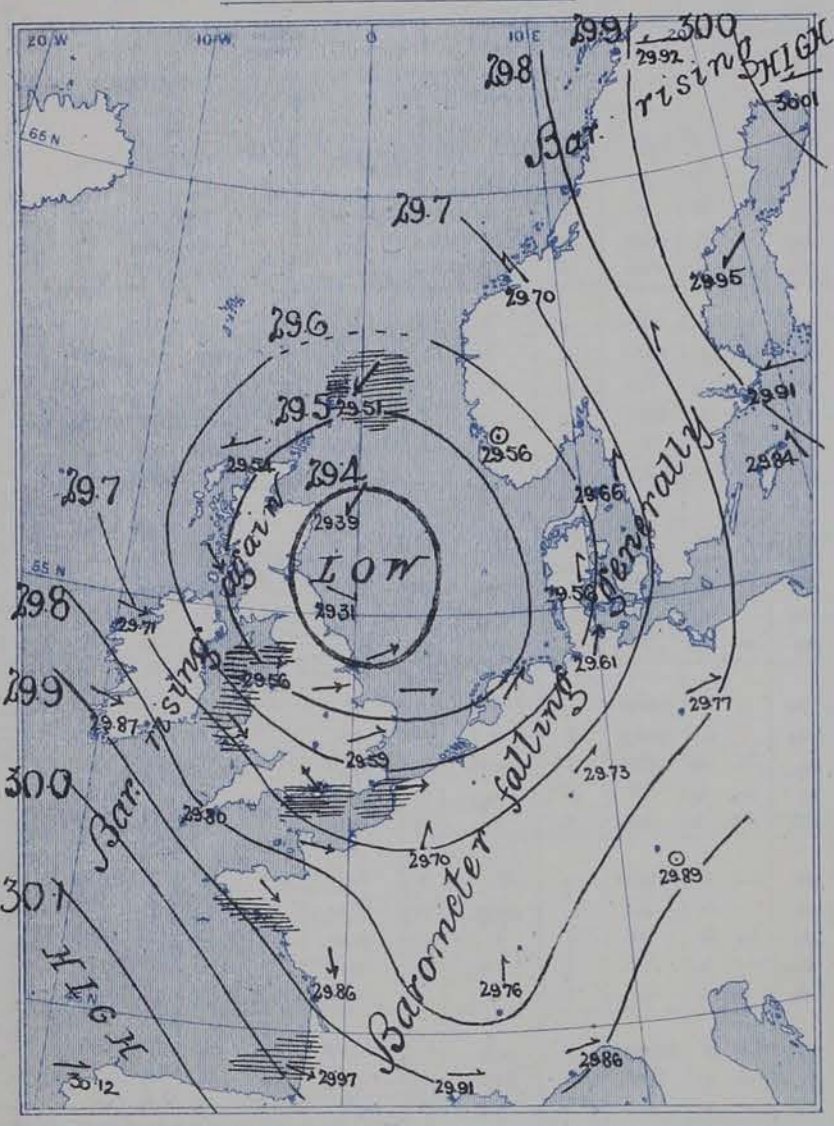
FOR Sunday, 2nd July, 1899.

BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ :

SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	--	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 in: and upwards in Portugal; 30·0 in: and upwards over Lapland.
Lowest, 29·4 in: and less, in a well marked depression with its centre off our northeast coasts.
Gradients moderate over the northwest of our Islands, slight elsewhere.
Barometer rising over the United Kingdom, but falling at most of the Continental stations.

TEMPERATURE

Highest (1) 67° at Berlin and Lisbon, 65° at Nice and 64° at Biarritz; (2) 65° at Bodö and 64° at Wisby and Berlin.
Lowest (1) 51° at Brest and 54° at Paris; (2) 52° at Liverpool, and 53° at Dumbuck Head and Valencia (Ireland).
The maxima registered over our Islands yesterday were below 60° on many parts of our western and northern coasts, and below 55° at all stations excepting those in the eastern and central parts of England.

WIND

W or NW over Ireland England and France, and strong in force on many parts of our west and south coasts, with a gale at Portland Bill.
Moderate from the SW over the Netherlands and Germany, S in Denmark, SE or E in Scandinavia; NE in the north of Scotland.

WEATHER

Cloudy and unsettled over Western Europe generally, with rain or passing showers in many places; fine in the west of Norway.
Rain fell yesterday in most parts of our area, the largest amounts being 0·8 in: at Leith, 0·6 in: at Loughborough, and 0·5 in: at Wiesbaden.
A thunderstorm occurred at Yarmouth and Paris, and thunder was heard at Spurn Hd, Donaghadee, and Oxford.

SEA

Rough on our western, southern and the French coasts, as well as at Dumbuck Hd, moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 3rd JULY 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED.	6 SCOTLAND WEST	NONE ISSUED.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		↓ 8 ENGLAND S.W.	
3 ENGLAND EAST		↓ 9 IRELAND NORTH	
4 MIDLAND COUNTIES		↓ 10 IRELAND SOUTH	
↓ 5 ENGLAND SOUTH		WARNINGS	The South Cone is still flying in districts 5.8.10. and part of 9.

Note.—The **South Cone,** *point downwards* (↓), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.68	61	55	SSW	2	b	2
Sumburgh Head	29.55	56	54	WNW	2	c	3
Stornoway... ...	29.46	63	58	S	2	o	2
Aberdeen	29.46	54	53	NE	3	ogp	4
Shields	29.36	55	54	E	1	op	2
Malin Head ...	29.45	59	56	NW	2	o	2
Belmullet	29.63	58	53	NW	3	b	*
Holyhead	29.44	63	60	W	3	c	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F	WEA.	SEA.
Valencia	29.75	58	53	WNW	4	c	5
Scilly	29.74	60	56	WNW	6	c	5
Jersey	29.80	62	59	W	7	bc	5
Portland Bill...	29.65	59	56	W	8	cq	6
Dungeness ...	29.55	63	60	WSW	7	c	6
London (Westminster)	29.52	62	59	WNW	3	cp	*
Yarmouth ...	29.46	63	59	SW	4	p	4
Rochefort ...	30.01	69	62	WNW	5	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over Western Europe generally, with rain in many parts of our Islands and France. Fine over Denmark, North Germany, and northern and central Russia, as well as over the Spanish Peninsula, northern Italy and the extreme south of France. Cloudy or dull over Austria and the southern parts of Russia and Italy, with rain at Kerma. Rain falling during day in most parts of western and central Europe, – heavily in places. Thunderstorms occurring at Yarmouth and Paris, and thunder heard at Spurn Head, Donaghadee and Oxford.

Temperature fallen in most of the western and central countries. Morning readings highest 77° at Patras and Constantinople, 76° at Athens and 75° at San Fernando and Sfax; above 65° over Southern Europe generally, as well as at some of the Russian and Scandinavian stations. Lowest 52° at Malin Head, 53° at Sumburgh Head and Aberdeen, and 54° at Shields and Donaghadee. Daily maxima below 60° on several parts of our own western and northern coasts, and below 65° at all stations excepting those in the eastern and central parts of England. Thermometer exceeding 70° over central and southern France, and reaching 81° at Perpignan.

Wind strong from the W^ly or NW^ly on our own south and southwest coasts and also in the north and west of France; moderate from the SW^ly or S^ly over the eastern and central parts of England, the Netherlands and Denmark; light to moderate from the SE^ly or E^ly over the northern parts of our Islands and also in Scandinavia. Variable in Russia and Italy, and also over the Spanish Peninsula; light from the W^ly in Austria. Subsequently increasing to a gale from the W^ly in the English Channel; no decided change occurring elsewhere.

Barometer highest 30·1 in: to 30·2 in: in an anticyclone lying over Algeria and the Spanish Peninsula, and also in another system over the extreme north of Russia. Lowest 29·5 in: and less, in a large depression lying over the northern and central parts of the United Kingdom; 29·9 in: and less, in a shallow system over the south of Russia. Depression over our Islands moving slowly eastwards during day, and barometer rising again on all our western coasts.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Monday, 3rd July, **1899.**

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda	30.02	64	L	0	c	30.09	+.08	68	59	+ 8	L	0	b	*	c	*	73	55	-
	Hernösand	29.98	55	L	0	f	30.00	+.05	60	57	+ 2	N	2	c	*	f	*	64	43	-
	Stockholm	29.89	61	SE	2	b	29.91	.00	63	61	+ 5	SE	2	o	*	b	*	68	50	0.35
	Wisby	29.89	62	SSE	4	b	29.80	-.04	66	62	+ 2	SSE	4	c	*	b	*	68	54	0.32
	Karlstad	29.82	62	L	0	c	29.84	+.04	60	58	- 1	ENE	2	r	*	c	*	*	*	0.47
	Bodö	29.94	69	ENE	1	b	30.01	+.09	68	59	+ 9	E	4	b	1	b	*	72	57	-
	Christiansund ...	29.69	66	ESE	1	o	29.89	+.19	64	58	+ 3	W	1	bc	1	o	*	72	61	-
	Skudesnaes ...	29.69	57	L	0	r	29.82	+.26	59	55	+ 1	ENE	2	b	1	r	*	59	54	*
	Færder	29.78	62	SE	2	o	29.80	+.09	62	60	+ 4	NNE	4	o	2	o	*	63	57	-
	The Scaw	29.77	63	SSE	2	m	29.75	+.09	62	60	+ 1	NE	2	m	0	m	*	68	59	0.20
	Fanö	29.69	60	L	0	bc	29.69	+.13	59	57	+ 3	NE	1	r	*	bc	*	70	3	0.12
BRITISH ISLANDS	Sumburgh Head ...	29.60	56	NE	3	c	29.80	+.29	57	56	+ 4	L	0	c	4	c	*	59	51	-
	Stornoway	29.69	55	N	4	d	29.90	+.36	55	54	- 4	WNW	4	o	4	o,r	1.6	59	51	0.02
	Wick	29.65	56	SW	3	bc	29.84	+.38	56	54	+ 1	WNW	3	o	1	bc	*	60	45	0.05
	Nairn	29.62	57	L	0	r	29.86	+.42	56	54	+ 1	W	1	o	1	r	*	61	52	0.11
	Aberdeen	29.56	56	N	3	c	29.82	+.43	56	55	+ 2	NNW	4	c qp	2	c	2.3	62	53	0.26
	Leith	29.55	57	N	1	r	29.83	+.44	65	59	+ 9	WNW	2	bc	*	r	*	65	54	0.69
	Shields	29.51	58	N	3	c	29.78	+.47	55	55	+ 1	N	3	o	3	p.c.r	*	59	52	0.22
	Spurn Head ...	29.51	58	W	4	o	29.75	+.37	57	56	+ 2	NW	4	op	3	op	*	58	55	0.33
	Loughborough ...	29.61	56	WNW	3	r	29.83	+.33	56	54	+ 2	NW.	3	o	*	op.c.op	*	60	54	0.14
	Malin Head ...	29.74	56	NW	5	b	29.96	+.42	53	51	- 1	NW	5	o	4	bc.b	*	58	53	-
	Belmullet	29.91	57	NW	5	o	30.12	+.41	56	51	+ 1	WNW	4	o	*	o	*	57	51	0.01
	Donaghadee ...	29.66	58	N	4	c	29.94	+.45	55	53	+ 1	NW	4	cq	3	c	*	62	51	-
	Liverpool (Bidston).	29.62	58	WSW	6	c	29.89	+.41	55	53	+ 3	W	5	o	5	cp	*	59	51	0.06
	Holyhead	29.67	59	WNW	6	cpd	29.94	+.38	59	56	+ 5	NW	6	bc	4	cpd	*	59	52	0.02
	Parsonstown ...	29.87	55	W	2	o	30.08	+.37	54	51	0	NW	1	o	*	oq	1.7	59	49	-
	Valencia	30.03	56	NW	6	oq	30.19	+.32	57	52	+ 4	NNW	4	cq	4	c.oq	7.6	60	52	0.02
	Roche's Point ...	29.92	58	NW	7	c	30.13	+.34	58	54	+ 2	NNW	5	bc	4	cq	*	60	52	0.01
	Pembroke	29.81	57	NW	5	o	30.05	+.30	55	52	0	NW	5	qd	5	c.o	4.9	58	54	-
	Scilly	29.93	59	WNW	6	bc	30.09	+.29	58	53	+ 1	NNW	6	c	4	bc	12.2	61	53	0.01
	Portland Bill ...	29.78	58	NW	8	c	29.93	+.26	58	55	+ 2	NNW	8	bc	6	c	*	59	53	-
	Jersey	29.89	61	W	6	b	30.01	+.24	58	56	- 1	WNW	4	om	3	bc.b	*	63	56	0.03
	Dungeness	29.69	61	WSW	4	bc	29.80	+.20	59	57	+ 1	W	5	o	4	c.bc	*	68	55	0.01
	London	29.68	60	WNW	3	c	29.86	+.27	56	54	- 1	NW	2	o	*	cp.or	2.4	65	54	0.04
	Oxford	29.70	55	WSW	3	r	29.89	+.31	55	52	0	WNW	3	oq	*	qp	*	62	53	0.01
	Yarmouth	29.59	58	SW	4	c	29.73	+.26	57	55	+ 1	NW	3	c	.3	c	*	60	53	0.06
GERMANY.	Cuxhaven	29.66	61	NW	2	o	29.64	+.03	57	55	- 1	NW	3	c	*	o,r	*	64	55	0.35
	Berlin	29.62	66	SE	1	c	29.62	-.23	59	57	- 5	W	4	r	*	c	*	73	59	0.87
	Wiesbaden	*	*	*	*	*	29.81	+.08	56	53	0	SW	3	o	*	*	*	57	52	0.63
	Munich	29.83	52	W	6	r	29.94	+.05	53	50	- 3	W	7	o	*	r	*	66	49	0.43
FRANCE & NETHERLANDS.	The Helder ...	29.62	59	SW	1	b	29.68	+.19	61	57	+ 6	SW	1	c	1	b	*	63	55	0.04
	Brussels	*	*	*	*	*	29.77	+.14	56	55	- 1	WSW	3	o	*	bc	*	66	50	0.32
	C. Gris Nez ...	29.71	58	W	6	r	29.80	+.19	57	55	+ 1	NW	5	o	5	r	*	61	54	0.04
	Paris	29.84	61	W	3	c	29.93	+.23	55	53	+ 1	SW	3	r	*	c	*	66	52	0.08
	Brest	30.01	60	NW	3	bc	30.13	+.28	57	55	+ 1	NW	3	o	2	bc	*	63	54	-
	Lorient	30.09	57	NW	5	o	30.12	+.26	57	54	0	WNW	5	c	5	o	*	66	54	-
	Rochefort	29.96	63	WNW	6	c	30.12	+.26	60	54	+ 1	NW	4	c	*	bc.c	*	66	54	0.08
	Belfort	29.84	53	SW	2	c	29.96	+.25	52	?	+ 1	WSW	7	c	*	c	*	60	43	0.55
	Lyons	29.93	57	NNW	3	c	30.10	+.34	59	52	+ 1	W	1	c	*	c.bl	*	67	50	0.04
	Nice	29.73	64	SW	2	c	29.84	-.02	64	50	- 1	NE	4	b	2	c	*	72	59	0.08
	Perpignan	29.95	70	NW	3	b	30.14	+.23	63	55	- 4	W	3	b	*	b	*	81	59	-
	Biarritz	30.09	64	WNW	5	r	30.18	+.21	62	56	- 2	NW	4	r	4	r	*	66	57	0.24
SPAN. PEN.	Corunna																*			
	Lisbon	30.19	?	N	?	?	30.12	-.14	66	58	- 1	WSW	5	bc	*	?	*	73	61	-
	Azores (P. Delgada)	30.47	71	E	1	o	30.41	-.06	71	68	0	NNW	1	c	2	o	*	77	66	0.08

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 1.0 hrs

WEATHER CHARTS

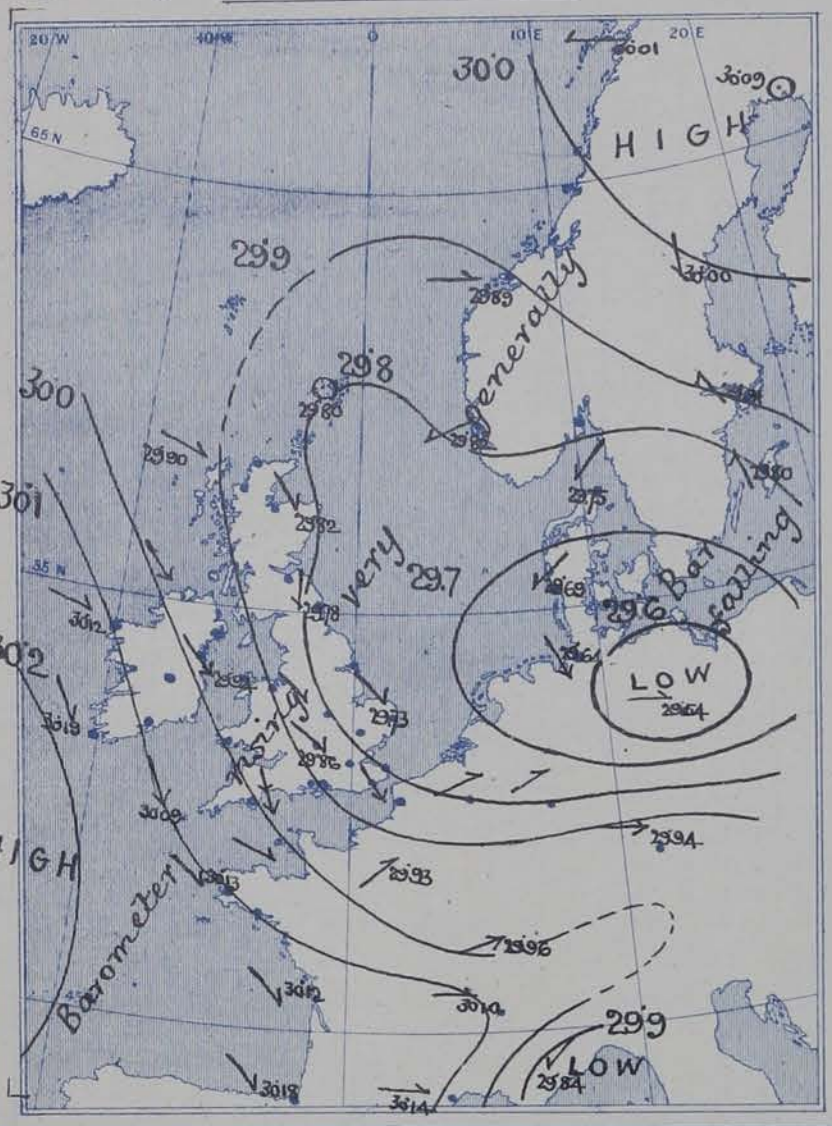
FOR *Monday, 3rd July,* 1899.

BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

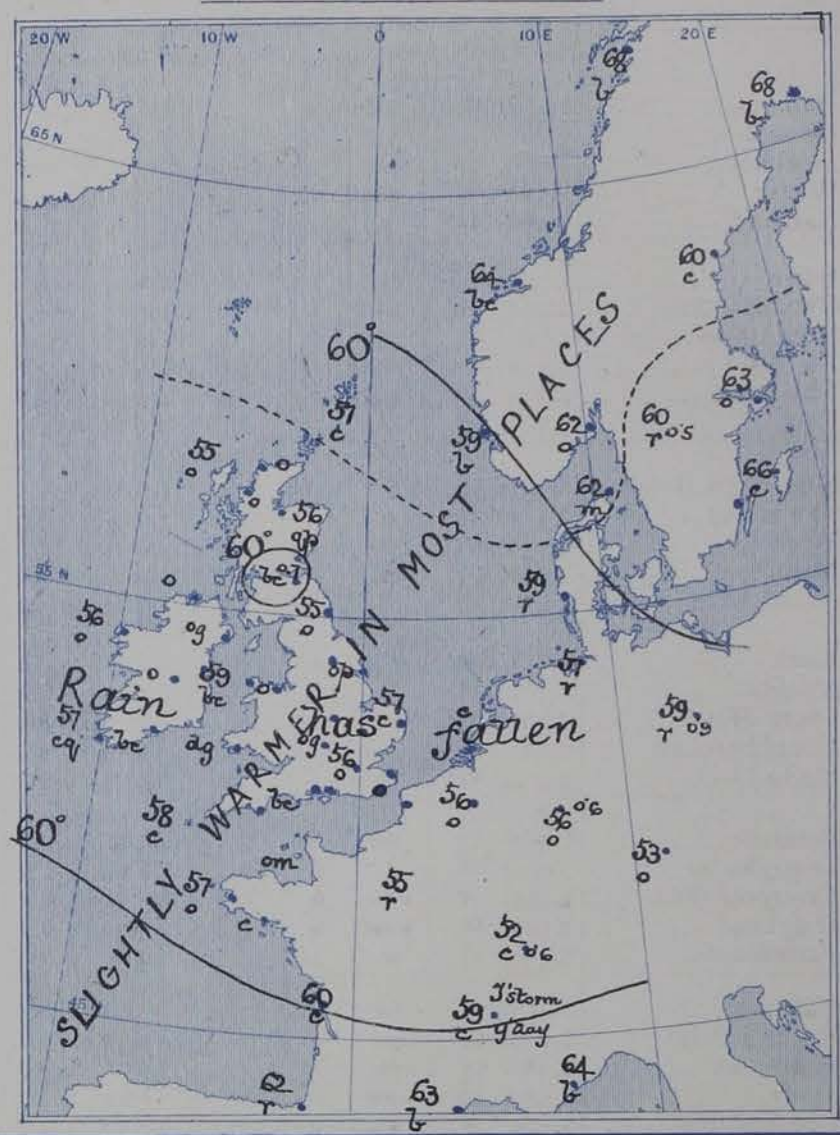
Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ :

SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 . 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	--	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·1 in: and upwards in an anticyclone lying over the south of Ireland, the Bay of Biscay, the Spanish Peninsula and the southern parts of France; 30·0 in: and upwards in another system over the northern parts of Scandinavia.
Lowest, 29·6 in: and less, in a well marked depression over North Germany.
Gradient moderate over the west and south of our Islands and the neighbouring parts of the Continent, but slight elsewhere.
Barometer rising generally, but falling a little over North Germany.

TEMPERATURE

Highest, (1) 68° at Bodö and Haparanda, 66° at Visby and 64° at Christiansund; (2) 66° at Lisbon, 64° at Nice, and 63° at Perpignan.
Lowest, (1) 52° at Belfast, 53° at Munich, and 55° at Paris; (2) 53° at Malin Hd. and 54° at Parsonstown.
The maxima registered yesterday were below 60° on several parts of our western and northern coasts, and below 65° in most other localities.
At Leith and in London the thermometer just reached 65°, while at Dungeness it rose to 68°

WIND

Moderate to fresh from the NW^{ly} over our Islands and the north and west of France; W^{ly} or SW^{ly} over the Netherlands, Germany and Central France, with a moderate gale at Munich and Belfort.
SW^{ly} in the south of Sweden, NE^{ly} in Denmark and the south of Norway; variable over the northern parts of Scandinavia.

WEATHER

Cloudy or dull over Western Europe as a whole, with showers on some parts of our own eastern coasts, and steady rain in several parts of Denmark, North Germany, and the south of Scandinavia, as well as at Paris and Biarritz.
Fog in the extreme south of France and also over the northern parts of Scandinavia.
Rain fell yesterday in most parts of our area, the largest amounts being 0·9 in: at Berlin, 0·7 in: at Leith, 0·6 in: at Wiesbaden and Berlin.
A thunderstorm occurred at Lyons in the evening.

SEA

Rough or rather so on several of the more exposed parts of our western, southern, and the French coasts, moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone to the southwestward of our Islands is inclined to spread eastwards and northeastwards, and a gradual improvement in the weather seems probable in most districts.

FORECASTS

For the 24 hours ending at NOON on 4TH JULY, 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NW^{ly} to W^{ly} winds, moderate; fair generally.	6 SCOTLAND WEST	NW^{ly} winds, moderate or fresh; fair generally.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	Same as No 5.	8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH	NW^{ly} winds, light or moderate; fair generally.	WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.57	59	57	SSE	2	r	1
Sumburgh Head							
Stornoway.. ...	29.62	57	56	NNE	4	o	4
Aberdeen							
Shields							
Ardrossan ...	29.64	58	56	NW	5	bc	4
Malin Head ...	29.87	57	53	NW	6	o	*
Belmullet							
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	29.84	62	55	W	6	bc	5
Hurst Castle ...							
Dungeness ...	29.64	64	56	W	4	c	3
London (Westminster)							*
Yarmouth ...							
Rochefort ...	29.92	61	58	NW	5	bc	4 *

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 25TH JUNE TO THE 1ST JULY,

At the commencement of the week a large anticyclone lay over the greater part of Western and Southwestern Europe, while two well marked depressions existed in the north and east, one over the south of Sweden and the other over Central Russia. The former of these disturbances subsequently passed away to the eastward, while the latter moved very slowly first in a westerly, and afterwards in a southerly direction, the system in the meantime gradually dissipating.

After the 26th the anticyclone drifted slowly eastwards or northeastwards, and on the 27th and 28th a depression moved northwards along our own extreme western coasts, while some V shaped secondary systems passed northeastwards across England, the disturbances occasioning heavy rain over nearly the whole of western Europe, and thunderstorms over the whole of England, as well as in neighbouring parts of the Continent. On the 30th another depression appeared off our extreme northwest coasts, and at the close of the week this was passing eastwards over the more northern parts of the United Kingdom. During its progress rain again fell over nearly the whole of Western Europe, while a considerable increase of wind took place on our own western and southern coasts, with a slight gale in the English Channel.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Tuesday 4th July, **1899.**

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall
		Ins.					Ins.	Ins.	°		°									Ins.
SCANDINAVIA	Haparanda	30·04	66	Z	0	c	30·10	+ ·01	64	62	− 4	E	2	c	x	c	x	75	61	0·20
	Hernosand	30·06	58	N	2	b	30·06	+ ·06	65	61	+ 5	N	2	b	x	b	x	72	52	—
	Stockholm	29·92	67	E	4	b	29·92	+ ·01	70	63	+ 7	ENE	4	b	x	b	x	77	54	—
	Wisby	29·82	65	SE	4	b	29·82	+ ·02	70	68	+ 4	SE	6	b	x	b	x	79	54	—
	Karlstad	29·84	71	ENE	4	b	29·89	+ ·05	70	62	+ 10	NE	4	b	x	b	x	x	+	0·04
	Bodö	30·04	67	Z	0	b	30·04	+ ·03	60	57	− 8	Z	0	0	0	b	x	73	57	0·08
	Christiansund ...	29·93	64	NE	3	bc	29·95	+ ·06	66	61	+ 2	ENE	2	b	0	bc	x	66	59	—
	Skudesnaes ...	29·82	60	N	4	r	29·81	− ·01	63	61	+ 4	NNE	2	0	1	c, r	x	68	54	x
	Færder	29·77	63	N	5	0	29·84	+ ·04	67	62	+ 5	NNE	4	b	2	0	x	67	61	0·08
	The Scaw	29·67	63	ENE	2	r	29·77	+ ·02	65	62	+ 3	ESE	2	b	0	bzr	x	66	62	0·12
	Fanö	29·53	63	NE	1	0	29·65	− ·04	59	56	0	ENE	6	0	x	r, 0	x	64	57	0·75
BRITISH ISLANDS	Sumburgh Head ...	29·93	59	NW	1	c	30·04	+ ·24	52	51	− 5	N	1	0	3	c	x	62	50	—
	Stornoway	30·03	57	NW	3	0	30·10	+ ·20	56	53	+ 1	WNW	4	0	4	0	0·0	59	51	—
	Wick	29·98	56	NW	3	c	30·07	+ ·23	58	54	+ 2	NW	3	c	1	c	x	63	46	—
	Nairn	30·00	59	Z	0	c	30·09	+ ·23	56	52	0	Z	0	0	0	c	x	59	52	0·02
	Aberdeen	29·96	59	NNW	3	bc	30·07	+ ·25	57	52	+ 1	NNW	4	cq	3	cq, bc	3·7	62	50	—
	Leith	29·95	66	Z	0	0	30·08	+ ·25	59	55	− 6	W	3	c	x	0	x	66	53	0·03
	Shields	29·94	57	N	3	c	30·04	+ ·26	58	55	+ 3	N	3	c	3	p, c	x	61	52	0·01
	Spurn Head ...	29·87	59	N	5	c	29·98	+ ·23	57	55	0	NNW	6	0	5	c	x	60	55	—
	Loughborough ...	29·96	57	NW	3	0	30·08	+ ·25	57	54	+ 1	WNW	4	0	x	upt, c, 0	x	60	54	0·49
	Malin Head ...	30·10	55	WNW	5	og	30·16	+ ·20	56	52	+ 3	NNW	2	b	1	og	3	56	51	—
	Belmullet	30·21	56	NW	3	0	30·20	+ ·08	58	57	+ 2	SSW	2	of	x	0	x	59	53	—
	Donaghadee ...	30·07	60	N	4	b	30·19	+ ·25	56	53	+ 1	N	3	bc	3	b	x	61	52	—
	Liverpool (Bidston)	30·01	57	W	5	c	30·14	+ ·25	55	53	0	W	5	c	4	c	x	60	54	0·01
	Holyhead	30·07	58	NW	3	c	30·18	+ ·24	55	53	− 4	NW	3	0	2	c	x	60	52	—
	Parsonstown ...	30·17	59	NW	1	0	30·23	+ ·15	56	53	+ 2	W	1	0	x	0	1·5	62	47	—
	Valencia	30·27	59	NW	4	c	30·26	+ ·07	58	58	+ 1	SSE	1	fg	3	cq, c	6·6	60	50	0·01
	Roch's Point ...	30·20	61	NNW	4	bc	30·27	+ ·14	57	54	− 1	SSE	1	0	2	bc	x	62	52	—
	Pembroke	30·11	57	NW	4	c	30·25	+ ·20	56	54	+ 1	NNW	3	0	3	c	4·0	59	54	0·02
	Scilly	30·19	60	NW	4	c	30·25	+ ·16	59	55	+ 1	NW	4	c	2	c	9·9	62	53	—
	Portland Bill ...	30·05	60	NW	6	c	30·15	+ ·22	58	54	0	NNW	5	b	4	cq, c	x	62	48	—
	Jersey	30·10	61	WNW	5	bc	30·20	+ ·19	61	57	+ 3	NW	4	b	3	cm, bc	x	63	56	—
	Dungeness	29·91	62	WNW	4	0	30·01	+ ·21	59	57	0	NW	4	0	3	0	x	65	54	—
	London	29·94	60	NW	3	opg	30·08	+ ·22	59	56	+ 3	NNW	4	0	x	od, 0	0·0	62	54	0·01
	Oxford	30·00	58	WNW	3	b	30·11	+ ·22	57	53	+ 2	NW	4	0	x	c, b	x	64	54	—
	Yarmouth	29·83	60	NW	4	c	29·90	+ ·17	55	54	− 2	NW	5	cq	5	c	x	62	53	0·27
GERMANY	Cuxhaven	29·51	56	W	6	r	29·51	− ·13	56	55	− 1	E	5	0	x	r	x	59	54	0·63
	Berlin	29·68	56	WSW	3	0	29·72	+ ·18	60	56	+ 1	SSW	2	c	x	0	x	66	55	0·04
	Wiesbaden	x	x	x	x	x	29·84	+ ·03	58	54	+ 2	SW	4	0	x	x	x	61	54	0·39
	Munich	30·01	53	W	6	c	30·04	+ ·10	57	57	+ 4	W	6	bc	x	c	x	61	50	0·28
NETHERLANDS	The Helder ...	29·73	59	NNW	3	c	29·65	− ·03	58	57	− 3	NNW	6	r	7	c	x	63	55	0·43
	Brussels	x	x	x	x	x	29·91	+ ·14	54	53	− 2	WNW	3	r	x	0	x	62	52	0·79
	C. Gris Nez ...	29·91	59	NW	4	m	30·01	+ ·21	57	55	0	NNW	6	m	6	m	x	61	55	—
	Paris	30·00	61	WNW	3	0	30·10	+ ·17	58	55	+ 3	W	3	0	x	0	x	64	55	—
	Brest	30·20	60	NW	2	bc	30·24	+ ·11	57	55	0	NW	2	b	2	bc	x	61	52	—
FRANCE	Lorient	30·18	59	NW	4	c	30·26	+ ·14	55	54	− 2	NW	3	c	3	c	x	63	54	—
	Rochefort	30·16	62	NW	4	c	30·22	+ ·10	59	55	− 1	N	3	0	x	c	x	64	55	—
	Belfort	30·02	54	SSW	7	b	30·08	+ ·12	52	51	0	WSW	7	b	x	b	x	56	47	0·16
	Lyons	30·10	62	N	1	0	30·22	+ ·12	56	53	− 3	WNW	1	r	x	0	x	67	53	0·04
	Nice	29·96	70	W	2	bc	30·02	+ ·18	63	56	− 1	SW	1	b	1	bc	x	77	55	—
	Perpignan	30·12	69	NW	4	bc	30·24	+ ·10	64	55	+ 1	NW	3	b	x	bc	x	75	58	—
	Biarritz	30·21	65	WSW	4	bc	30·24	+ ·06	60	55	− 2	SSE	2	c	2	bc	x	66	59	—
SPAIN. PEN	Corunna																x			
	Lisbon	30·05	65	NNW	6	b	30·03	− ·09	71	56	+ 5	NE	4	b	x	b	x	77	63	—
	Azores (P. Delgada)	30·40	68	NE	3	bc	30·36	− ·05	67	64	− 4	NE	3	0	3	bc	x	79	66	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 5·2 *hrs.*

WEATHER CHARTS

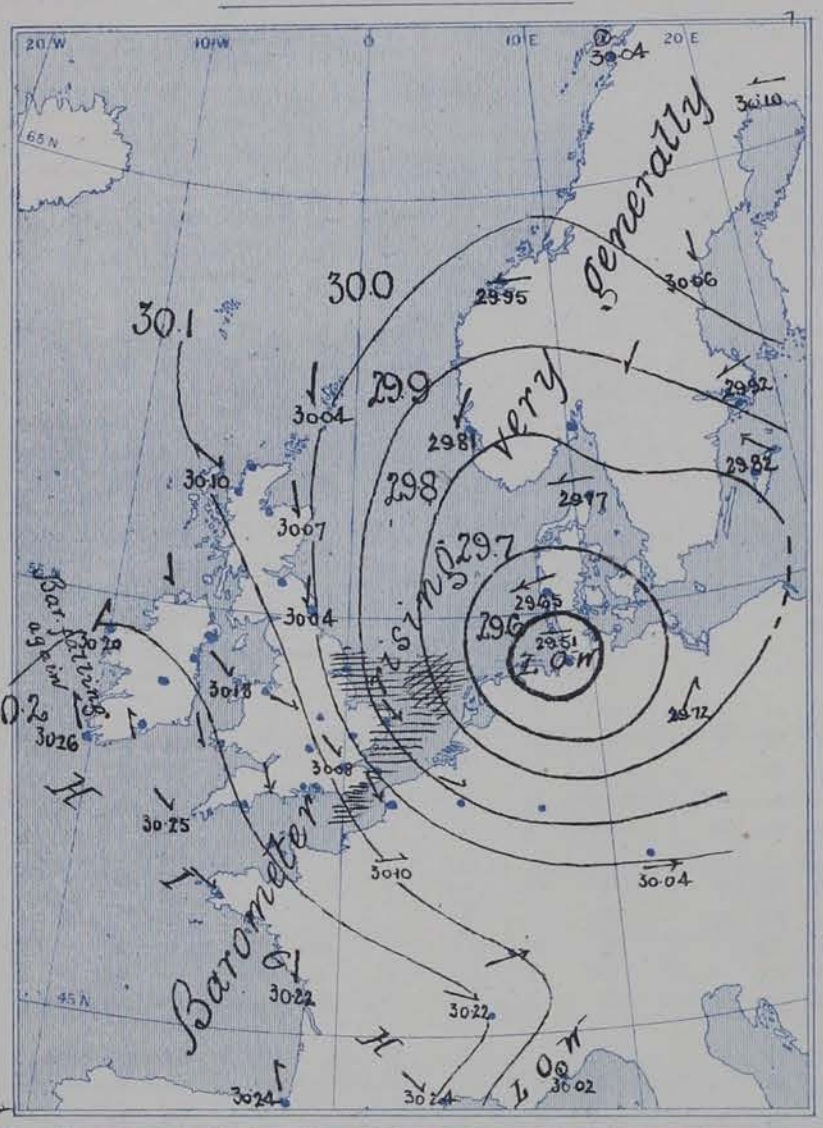
FOR *Tuesday, 4th July,* 1899.

BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

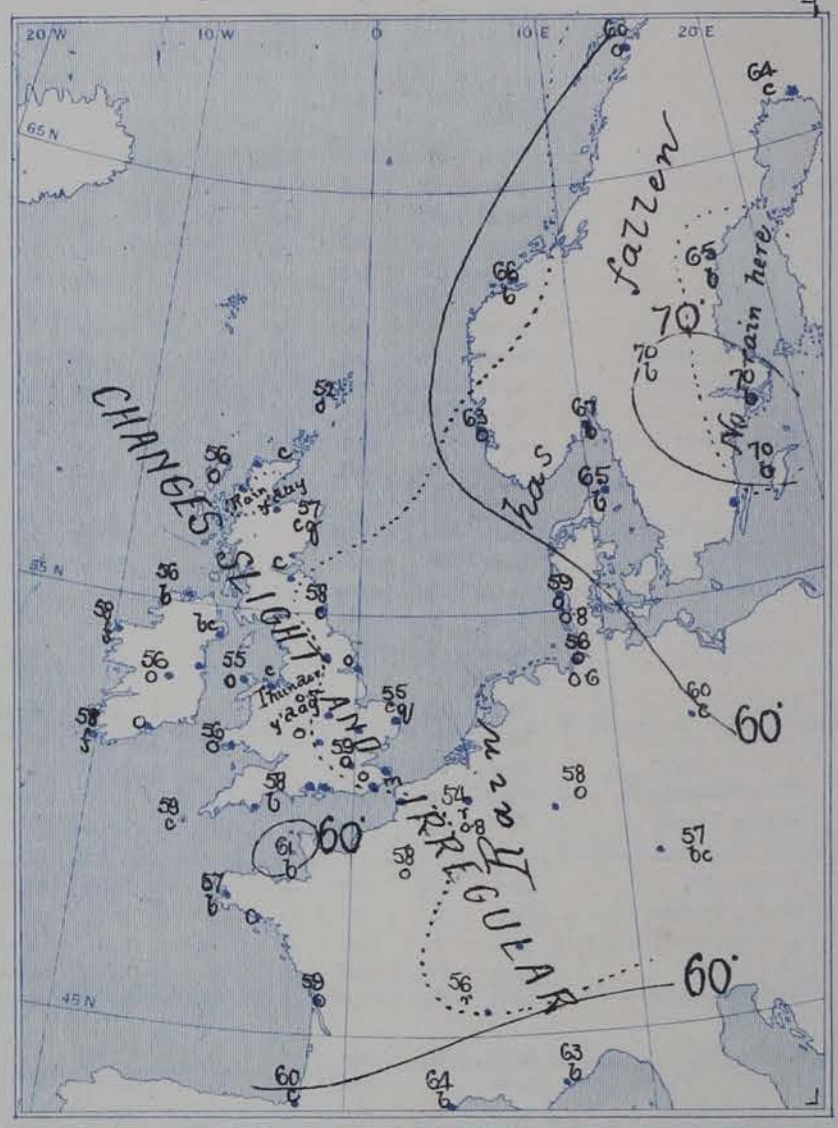
Force above 10 ⟫⟶ : *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ⟩⟶ : *Force 1 to 4* ⟶ : }

SEA.—Rough ▒ : *High* ▓



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 . 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	--	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest (1) 30.2 ins. and more over the Bay of Biscay, the W. of France and the W^rn parts of our Islands; (2) 30.10 ins. at Haparanda (Gulf of Bothnia)
Lowest 29.5 ins. in a depression over the NW. of Germany.
Gradients rather steep, for N^ly winds, over the North Sea, the Netherlands & the E. of England.
Barometer rising in most places, but had begun to fall again in the extreme W. of Ireland.

TEMPERATURE

Highest (1) 63° to 60° in the S. of France, and (2) 70° at Stockholm and Wisby, 67° to 60° over Norway; 60° at Berlin, 61° at Jersey.
Lowest 52° at Slimbridge N^o, 56° to 59° over our Islands generally; 54° at Brussels, 58° at Paris.
The maxima recorded yesterday varied from 60° to 66° over our Islands, and the greater part of France, but 77° was the maximum at Nice, and 75° at Perpignan, and 79° was recorded at Wisby.

WIND

NE^ly over Scandinavia, NNW^ly over Gt. Britain, W^ly to SW^ly over north Germany, E^ly at Faro.
It blows strongly over the North Sea and on our eastern coasts. Over S. Germany it was strong from W.

WEATHER

Cloudy, but fair, over our Islands, France, and inclined to showers in Belgium, and apparently in N. Germany.
Clear and very fine over Scandinavia.
Rain had fallen generally at the German and Danish stations, and some showers locally in various parts of our Islands.
Bright Sunshine recorded yesterday amounted to nearly 10 hours at Scilly, 7 hours at Valencia (Ireland), and 4 hours at Aberdeen; in London there was none.

SEA

Rough in the North Sea, and on the N. coast of France, moderate to slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is little indication of any change yet as the new disturbance in the W. is not advancing quickly.

FORECASTS

For the 24 hours ending at NOON on 5th JULY 1899.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Wind backing to SW. or SE; dull to showery.
1	SCOTLAND EAST	NW^ly winds, falling light; fair, warmer.
2	ENGLAND N.E.	
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	NW^ly winds, moderating; fair.
6	SCOTLAND WEST	Same as No. 0.
7	ENGLAND N.W.	NW^ly to SW^ly winds, moderate, fair.
8	ENGLAND S.W.	
9	IRELAND NORTH	SW^ly winds, freshening; some showers in the west; fair in the east.
10	IRELAND SOUTH	
	WARNINGS	None issued.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR	THER. Dry.	THER. Wet.	WIND Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.83	68	59	NNW	6	c	2
Sumburgh Head	29.89	58	57	W	1	c	4
Stornoway	29.97	58	56	NW	3	o	3
Aberdeen	29.91	61	57	NNW	4	cq	2
Shields	29.87	60	57	N	3	o	3
Malin Head ...	30.04	? 56	53	NW	5	o	3
Belmullet	30.17	58	54	WNW	3	o	*
Holyhead ...	30.03	59	57	NW	4	c	3

	BAR	THER. Dry.	THER. Wet.	WIND Direc.	F	WEA	SEA
Valencia	30.23	60	53	WNW	4	cq	5
Scilly ..	30.16	59	54	NW	5	c	3
Jersey	30.08	63	58	WNW	6	cm	5
Portland Bill ..	30.00	59	55	NW	7	cq	5
Dungeness ...	29.86	64	60	W	5	o	4
London (Westminster)	29.90	62	57	NW	4	og	*
Yarmouth ..	29.79	61	57	NW	4	c	3
Rochefort ..	30.14	64	58	NW	4	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning dull and cold over our Islands and the N. of France, squally over the North Sea, with rain showers there, over the NW of Germany, Denmark and the S of Norway. Considerable rain later in all the latter regions, thunder locally; showers in a few parts of our Islands, but thundershowers and local rains at Loughborough (Leicestershire).

Temperature risen over Nrn., fallen over central Europe; Morning readings highest (1) 72° at Kuopio, 73° at St. Petersburg, 70° at Moscow, and 70° to 60° over the greater part of Scandinavia; (2) 79° at Algiers, 72° at Brindisi, 70° at Barcelona. Lowest 55° to 60° over the greater part of our Islands (65° at Leith). Continuing below 65° at most of our stations later, but touching 79° at Stockholm, 77° at Nice, and 75° at Perpignan.

Wind E^ly in the west of Norway, NW^ly (strong) over our Islands as a whole, W^ly over France and Germany, SE^ly (light) over Russia. Very variable (but cyclonic and rather strong) over the Mediterranean. No decided change later.

Barometer (1) 30.4 ins. at P. Delgada, 30.2 ins. at Oporto, 30.2 ins. to 30.1 ins. over the Bay of Biscay, the Nrn. parts of Spain, the SW. of France and the SW. of Ireland; (2) 30.1 ins. and more over Finland, and above 30.0 ins. almost all over Russia and the Nrn. parts of Scandinavia. Lowest 29.6 ins. and less in a depression over N. Germany, and below 29.9 ins. over the NErn. parts of the Mediterranean and the N. of Italy. Rising later all over NWrn. Europe, falling over the Azores and Spanish Peninsula.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid in advance, to the* Meteorological Office.

TERMS. For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 5th July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda	29.95	67	SW	0	r	29.89	-.21	71	66	+7	N	2	b	*	r	*	75	61	0.024
	Hernösand	29.99	63	SW	0	b	29.95	-.11	70	62	+5	N	2	b	*	b	*	82	50	-
	Stockholm	29.93	68	ENE	4	b	29.93	+.01	73	64	+3	ENE	4	b	*	b	*	75	61	-
	Wisby	29.81	65	ESE	4	b	29.85	+.03	58	55	-12	N	4	b	*	b	*	81	57	-
	Karlstad	29.92	75	SW	0	b	29.95	+.06	71	61	+1	NNW	2	b	*	b	*	*	*	-
	Bodö	30.01	66	SW	0	c	29.98	-.06	59	58	-1	W	2	f	0	c	*	70	57	0.20
	Christiansund ...	29.99	64	WNW	2	f	30.10	+.15	60	59	-6	NNE	1	f	1	f	*	72	59	-
	Skudesnaes ...	29.93	65	NNW	2	o	30.01	+.20	57	55	-6	N	6	f	2	o	*	72	54	*
	Færder	29.88	69	NE	2	bc	29.97	+.13	68	68	+1	N	2	c	1	bc	*	72	64	-
	The Scaw	29.87	64	WNW	2	bc	29.95	+.18	64	62	-1	NNW	1	kl	0	kl.o	*	75	61	-
	Fanö	29.84	65	NE	1	c	29.93	+.28	66	63	+7	NNW	2	r	*	c	*	70	59	-
BRITISH ISLANDS	Sumburgh Head ...	30.09	55	NW	1	o	30.14	+.10	53	52	+1	WNW	1	o	3	c.o	*	57	50	-
	Stornoway	30.11	59	S	3	o	30.12	+.02	59	58	+3	SW	2	o	2	c.o	2.8	60	53	-
	Wick	30.13	57	NW	3	o	30.17	+.10	57	54	-1	S	2	b	1	o	*	60	43	-
	Nairn	30.13	62	SW	0	c	30.17	+.08	57	56	+1	SW	0	o	0	c	*	63	47	-
	Aberdeen	30.12	61	NNW	3	b	30.18	+.11	58	55	+1	E	2	bc	1	cq.b	7.5	62	48	-
	Leith	30.10	68	W	1	o	30.18	+.10	60	56	+1	WNW	1	bc	*	o	*	66	49	-
	Shields	30.12	57	NNE	3	b	30.19	+.15	57	55	-1	WNW	2	c	3	c.b	*	60	52	-
	Spurn Head ...	30.05	58	NNW	6	b	30.18	+.20	59	56	+2	NW	4	bc	4	b	*	60	53	-
	Loughborough ...	30.13	62	WNW	3	bc	30.24	+.16	60	56	+3	WNW	1	bmw	*	c.bc.bm	*	66	47	-
	Malin Head ...	30.16	59	E	2	c	30.17	+.01	57	56	+1	SE	2	o	2	c.bew	*	62	55	-
	Belmullet	30.18	60	WNW	2	o	30.19	-.01	58	58	0	W	3	of	*	om.o	*	60	56	0.09
	Donaghadee ...	30.19	60	N	3	bc	30.20	+.01	59	57	+3	NE	2	b	2	bc	*	61	52	0.09
	Liverpool (Bidston).	30.19	58	W	3	bc	30.24	+.10	60	57	+5	S	1	c	1	bc	*	60	53	-
	Holyhead	30.21	59	SW	2	bc	30.22	+.04	58	57	+3	SW	2	f	1	b.bc	*	61	53	-
	Parsonstown ...	30.20	63	SW	1	o	30.23	.00	62	60	+6	W	1	o	*	o	0.5	66	55	0.07
	Valencia	30.26	60	WNW	3	om	30.28	+.02	60	60	+2	W	2	fa	3	om	0.0	64	57	0.11
	Roche's Point ...	30.22	68	WNW	3	bc	30.30	+.03	62	60	+5	NW	2	o	3	bc	*	69	56	-
	Pembroke	30.26	60	NW	2	b	30.27	+.02	58	58	+2	WNW	2	o	2	b.f	10.8	60	55	0.04
	Scilly	30.27	60	WNW	3	om	30.29	+.04	60	59	+1	NW	3	of	0	c.om	7.5	62	55	-
	Portland Bill ...	30.18	61	NW	4	b	30.29	+.14	57	56	-1	NNW	3	o	3	o.b	*	69	48	-
	Jersey	30.24	62	WNW	5	bc	30.30	+.10	62	57	+1	WNW	4	bc	3	bc	*	65	53	-
	Dungeness	30.08	66	NW	3	o	30.20	+.19	61	58	+2	NW	3	m	3	c.o	*	68	50	-
	London (Brixton) ...	30.11	64	NW	4	og	30.24	+.16	58	55	-1	W	2	bm	*	o.c.bm	1.8	68	50	-
	Oxford	30.17	60	NW	2	b	30.25	+.14	61	56	+4	N	2	b	*	c.b	*	67	48	-
	Yarmouth	30.01	57	NW	6	c	30.15	+.25	57	54	+2	NW	5	c	4	cq.c	*	60	53	-
GERMANY.	Cuxhaven	29.73	68	E	3	c	29.93	+.42	62	60	+6	WNW	2	o	*	c	*	63	56	-
	Berlin	29.77	62	W	3	bc	29.82	+.10	59	57	-1	NW	3	o	*	bc	*	70	55	-
	Wiesbaden	×	×	*	*	*	30.06	+.22	59	57	+1	NW	3	o	*	*	*	79	55	0.79
	Munich	30.06	56	W	6	bc	30.14	+.10	54	51	-3	W	7	o	*	bc	*	64	50	-
FRANCE & NETHERLANDS.	The Helder ...	29.87	59	NNW	3	c	30.02	+.37	58	57	0	NNW	3	r	3	c	*	59	57	0.12
	Brussels	×	*	*	*	*	30.15	+.24	55	55	+1	WNW	2	r	*	r	*	55	53	0.98
	C. Gris Nez ...	30.08	61	NNW	5	m	30.19	+.18	56	54	-1	N	3	c	3	m	*	64	54	-
	Paris	30.15	63	W	3	o	30.24	+.14	60	57	+2	WNW	1	b	*	o	*	64	51	-
	Brest	30.30	61	NNW	1	b	30.33	+.09	57	57	0	NW	1	c	2	b	*	63	52	-
	Lorient	30.26	63	NW	4	bc	30.32	+.06	59	57	+4	SW	0	o	1	bc	*	68	54	-
	Rochefort	30.29	64	NNW	4	bc	30.31	+.09	59	57	0	NE	3	b	*	bc	*	68	54	-
	Belfort	30.14	53	SW	6	r	30.22	+.14	53	53	+1	W	4	f	*	r	*	62	48	0.71
	Lyons	30.21	61	SW	2	o	30.26	+.04	58	56	+2	NNW	1	c	*	o	*	67	54	0.04
	Nice	30.00	65	SE	4	b	30.04	+.02	64	57	+1	SW	0	b	2	b	*	73	55	-
	Perpignan	30.19	71	W	3	b	30.27	+.03	66	56	+2	NW	3	b	*	b	*	74	59	-
	Biarritz	30.24	64	N	4	b	30.27	+.03	62	57	+2	E	3	bc	3	b	*	68	55	-
SPAN PEN.	Corunna																*			
	Lisbon	30.02	75	NNW	5	b	30.04	+.01	70	63	-1	NE	4	b	*	b	*	82	66	-
	Azores (P. Delgada)	30.39	68	NE	3	b	30.37	+.01	68	62	+1	NNE	3	o	2	b	*	71	64	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 11.4

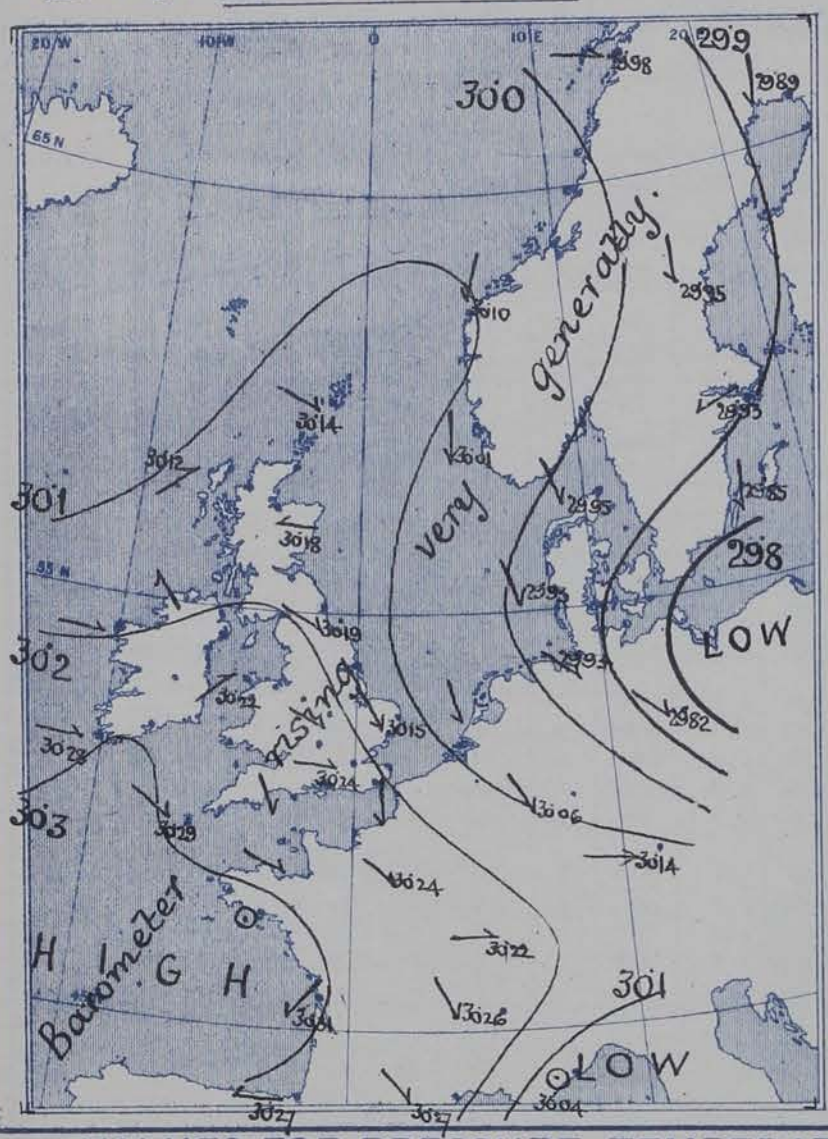
WEATHER CHARTS

FOR Wednesday, 5th July, 1899.

BAROMETER, WIND AND SEA.

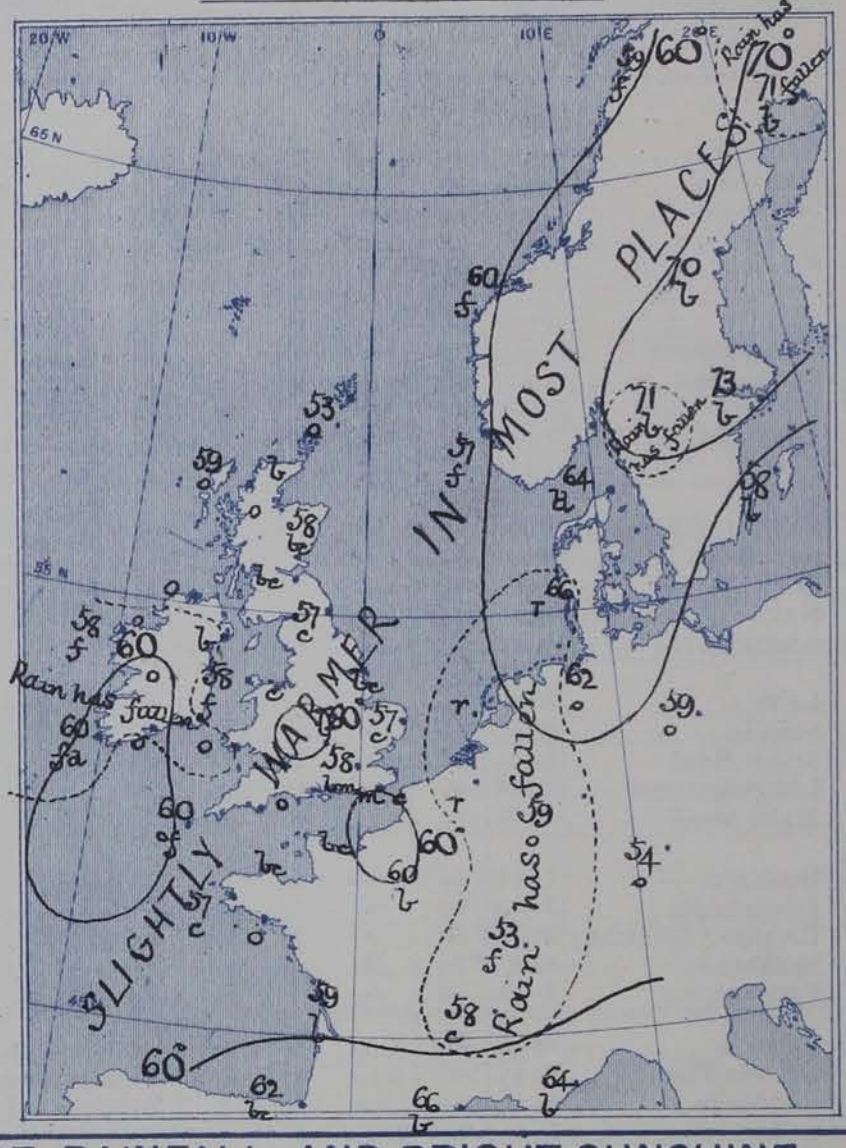
BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ :
SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 . 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·3 in: and more to 30·2 in: over the western and southern parts of our Islands, over France, and the Bay of Biscay.
Lowest, 29·8 in: and less, over the Baltic and North Germany. There is a little irregularity over the north of Ireland.
Gradient slight. Distribution mainly anticyclonic.
Barometer rising almost everywhere.

TEMPERATURE

Highest, (1) 66° at Kingsnorth, 62° at Bicanitz, Jersey, and Rockfleet Point, 61° at Dungeness, 60° at Scilly, Valencia, and Leith; (2) 73° to 70° in the Scandinavian quart.
Lowest, 53° at Lerwick Head, 57° at Malin Head and Shields, 58° at Holyhead.
The maxima recorded yesterday did not touch 70° in any part of our Islands, but some as high as 69° at Portland Bill and Rockfleet Point, 68° in London, 66° at Paramatown and Leith.

WIND

Still NW over England, the North Sea, Denmark, North Germany, central France and the Netherlands; N in Scandinavia.
Light from the W or SW in Ireland and Wales; SW or S in the north of Scotland.
Calm or light from the E or NE in the west of France.

WEATHER

Fine over the eastern and southern part of Great Britain, and also over France, Spain and Sweden; dull and foggy at many of our eastern stations; unsettled to the eastward of the North Sea, with rain at several stations, thunder and lightning at the Scaw.
Some rain has fallen over the east of France, over Germany, and the Baltic, and a very little in Ireland.
Bright Sunshine recorded yesterday exceeded 10 hours at several of our southwestern and southern stations.

SEA

going down, but still moderate in the east.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Anticyclonic (ridge-like) conditions are becoming general, and the weather over England is likely to be fine generally, warmer during the day, but cool tonight.

FORECASTS

For the 24 hours ending at NOON on 6th JULY, 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Varying S airs; cloudy, some local showers.
1 SCOTLAND EAST	Very Variable winds, light; fair generally.
2 ENGLAND N.E.	
3 ENGLAND EAST	NW and W breezes, light; fine, warm.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Same as No 0.
7 ENGLAND N.W.	Same as Nos 3 to 5.
8 ENGLAND S.W.	
9 IRELAND NORTH	Variable W and SW airs; some little rain locally, but fair as a whole.
10 IRELAND SOUTH	
WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.88	71	65	NNW	2	o	1
Sumburgh Head	30.07	55	53	NW	2	c	3
Stornoway... ...	30.12	59	54	S	3	c	3
Aberdeen	30.10	61	55	NNW	4	c q	3
Shields	30.09	60	56	N	3	c	4
Malin Head ...	30.16	59	57	NW	2	c	1
Belmullet	30.18	60	58	NW	2	o m	*
Holyhead	30.21	60	54	NW	1	b	1

	BAR	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.27	62	60	NSW	3	o m	4
Scilly	30.29	61	56	NNW	4	c	1
Jersey	30.24	65	59	NNW	5	bc	4
Portland Bill ...	30.18	61	57	NW	4	o	4
Dungeness ...	30.05	66	62	NNW	5	c	4
London (Westminster)	30.09	66	58	NNW	3	o	*
Yarmouth ...	29.98	58	54	NW	6	c q	5
Rochefort ...	30.22	67	61	NNW	4	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental Information will appear tomorrow.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Thursday, 6th July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M.S.L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda	29.82	65	E	0	0	29.81	-.08	64	61	-7	N	2	c	*	0	*	77	64	0.28
	Hernösand	29.88	67	E	0	b	29.97	+.02	66	60	-4	NW	4	c	*	b	*	81	52	-
	Stockholm	29.93	70	E	0	b	29.95	+.02	76	64	+3	W	4	c	*	b	*	77	59	-
	Wisby	29.97	58	NE	4	b	29.97	+.12	62	58	+4	E	4	b	*	b	*	72	54	-
	Karlstad	29.93	75	SW	2	bc	29.95	.00	72	64	+1	NNE	2	bc	*	bc	*	*	*	-
	Bodö	30.04	53	E	0	0	30.05	+.07	52	51	-7	W	2	0	1	0	*	59	50	0.08
	Christiansund ...	30.11	55	N	2	f	30.19	+.09	56	53	-4	N	2	f	2	f	*	?	?	0.08
	Skudesnaes ...	30.06	56	NNW	8	0	30.08	+.07	55	53	-2	NNW	8	0	2	m.o	*	61	54	*
	Færder	29.93	72	NNW	1	b	29.97	.00	68	63	0	N	2	b	1	b	*	73	66	-
	The Scaw	29.96	66	NNW	1	b	29.98	+.03	66	62	+2	NNE	1	b	0	b	*	73	59	0.04
	Fanö	30.02	59	NW	5	0	30.06	+.13	57	56	-9	NW	6	0	*	0	*	75	57	-
BRITISH ISLANDS.	Sumburgh Head ...	30.17	56	NNW	2	b	30.18	+.04	57	55	+4	W	1	0	2	b	*	59	52	-
	Stornoway	30.14	64	S	3	c	30.17	+.05	59	57	0	SW	2	0	2	o,c	3.1	65	51	-
	Wick	30.20	56	NW	1	b	30.21	+.04	59	55	+2	S	1	0	1	b	*	64	52	-
	Nairn	30.18	60	E	1	c	30.21	+.04	59	57	+2	E	0	c	1	c	*	66	48	-
	Aberdeen	30.21	56	E	2	bc	30.22	+.04	58	56	0	S	1	0	1	bc	12.2	62	53	-
	Leith	30.16	63	W	1	c	30.21	+.03	59	57	-1	WNW	1	c	*	c	*	72	53	-
	Shields	30.18	59	SE	3	c	30.21	+.02	61	59	+4	W	2	cm	2	c	*	62	54	-
	Spurn Head ...																*			
	Loughborough ...	30.20	71	NNW	1	bc	30.24	.00	65	62	+5	NW	1	bcw	*	c.bc.cm	*	74	54	-
	Malin Head ...	30.21	58	W	4	f	30.21	+.04	61	59	+4	ESE	1	b	1	o,f	*	62	55	-
	Belmu"et	30.23	61	WSW	1	c	30.21	+.02	58	57	0	SW	3	om	*	c	*	63	50	-
	Donaghadee ...	30.20	59	S	3	bcp	30.26	+.06	55	54	-4	NNE	1	f	2	bc p	*	62	53	0.08
	Liverpool (Bidston).	30.24	62	W	1	b	30.25	+.01	63	60	+3	W	1	bc	1	bm	*	66	57	-
	Holyhead	30.23	63	SW	2	c	30.26	+.04	59	58	+1	W	2	om	1	opmd,c	*	65	54	-
	Parsonstown ...	30.24	66	W	1	c	30.27	+.04	62	61	0	SW	1	r	*	c	4.4	70	59	0.01
	Valencia	30.29	63	WSW	2	c	30.28	.00	62	61	+2	S	1	om	3	c	1.2	67	57	0.14
	Roche's Point ...	30.28	68	NNW	3	bc	30.30	.00	59	58	-3	SSW	2	f	3	bc	*	69	58	-
	Pembroke	30.28	56	NW	2	f	30.29	+.02	57	56	-1	NW	2	f	1	f	0.0	62	55	-
	Scilly	30.32	62	NNW	3	c	30.32	+.03	61	58	+1	W	1	bcf	1	c	1.0	65	57	-
	Portland Bill ...	30.28	61	W	3	c	30.28	-.01	59	58	+2	NNW	3	of	2	bc.cm	*	65	?50	-
	Jersey	30.29	62	WNW	4	f	30.31	+.01	60	59	-2	W	3	f	3	b.f	*	67	57	0.01
	Dungeness	30.21	61	SW	3	c	30.23	+.03	60	?	-1	WSW	1	m	1	c.f	*	69	50	-
	London	30.21	71	NW	2	bc	30.25	+.01	64	62	+6	SW	2	c	*	bc.om	8.8	75	57	-
	Oxford	30.23	66	W	2	bc	30.26	+.01	65	62	+4	WNW	2	o	*	bc.f	*	73	57	-
	Yarmouth	30.19	63	NNW	4	bc	30.22	+.07	60	57	+3	NE	2	b	2	bc	*	63	53	-
GERMANY.	Cuxhaven	30.01	63	NW	4	b	30.06	+.13	59	58	-3	NW	3	o	*	r.b	*	68	57	0.04
	Berlin	29.89	73	NNW	3	bc	29.98	+.16	65	62	+6	NW	3	o	*	bc	*	81	59	0.16
	Wiesbaden	*	*	*	*	*	30.20	+.14	59	57	0	W	3	o	*	*	*	64	58	0.16
	Munich	30.23	55	W	6	o	30.23	+.09	57	54	+3	W	5	o	*	o	*	59	54	0.08
FRANCE & NETHERLANDS.	The Helder ...	30.13	57	NNW	3	r	30.18	+.16	56	54	-2	NW	3	o	3	r	*	59	55	0.12
	Brussels	*	*	*	*	*	30.25	+.10	56	54	+1	NNW	2	o	*	o	*	58	53	0.04
	C. Gris Nez ...	30.22	64	WSW	1	m	30.22	+.03	57	57	+1	S	1	f	1	m	*	66	54	-
	Paris	30.24	68	NNE	2	bc	30.28	+.04	57	56	-3	S	1	b	c	bc	*	72	50	-
	Brest	30.36	63	NW	1	o	30.36	+.03	58	58	+1	NNW	1	m	1	o	*	63	52	-
	Lorient	30.28	64	WNW	4	c	30.32	.00	59	59	0	E	0	o	0	c	*	72	55	-
	Rochefort	30.33	65	NW	3	b	30.33	+.02	62	60	+3	NE	2	b	*	b	*	68	55	-
	Belfort	30.25	58	W	2	m	30.24	+.02	54	54	+1	WSW	2	f	*	m	*	59	51	0.04
	Lyons	30.23	64	NNE	2	c	30.24	-.02	60	57	+2	N	2	c	*	c	*	70	56	-
	Nice	30.04	68	SE	2	b	30.06	+.02	66	61	+2	E	0	b	0	b	*	75	57	-
	Perpignan	30.17	75	NW	3	b	30.21	-.06	70	58	+4	NW	3	b	*	b	*	78	62	-
	Biarritz	30.25	66	N	4	b	30.24	-.08	65	61	+3	N	2	b	2	b	*	68	59	-
SPAN. PEN.	Corunna																*			
	Lisbon	30.03	76	NNW	4	b	30.03	-.01	75	63	+5	ENE	3	b	*	b	*	81	70	-
	Azores (P. Delgada)	30.36	66	NNE	3	b	30.32	-.05	69	62	+1	NE	3	bc	2	b	*	73	63	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 4.2 hrs.

WEATHER CHARTS

FOR Thursday, 6th July, 1899.

BAROMETER, WIND AND SEA.

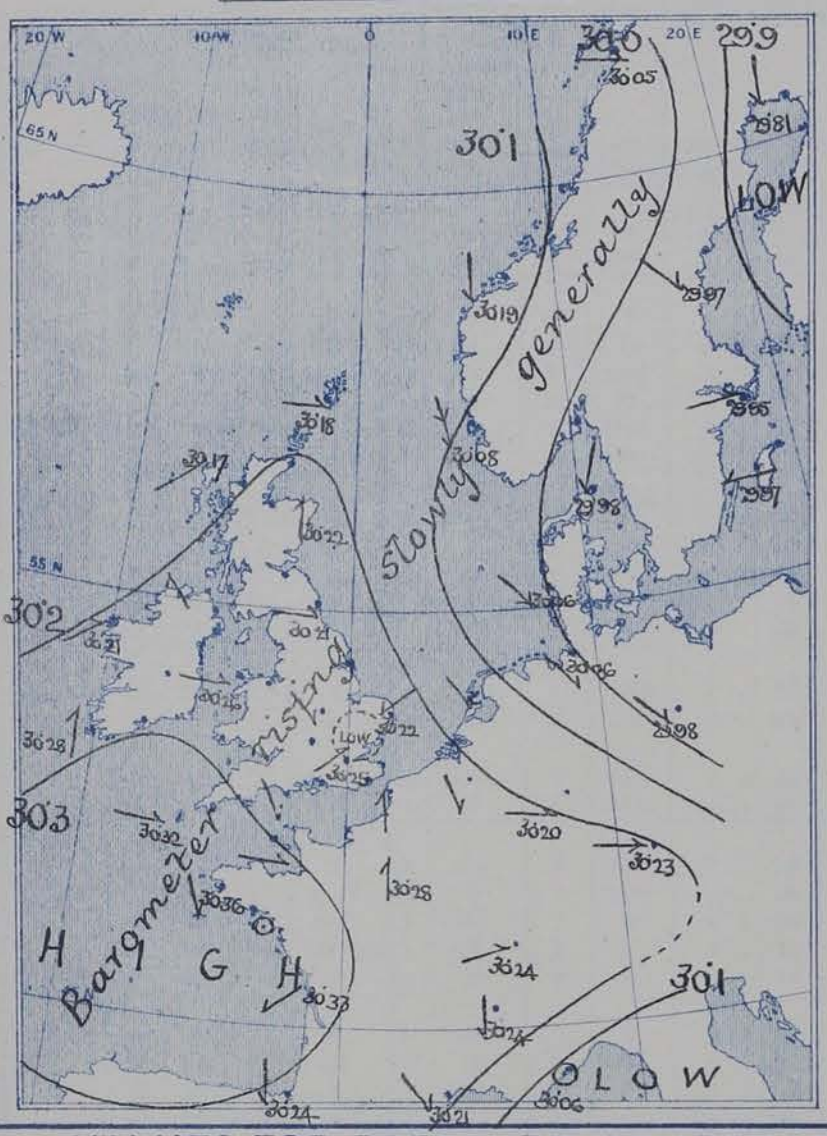
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙

Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ : }

SEA.—Rough : *High*

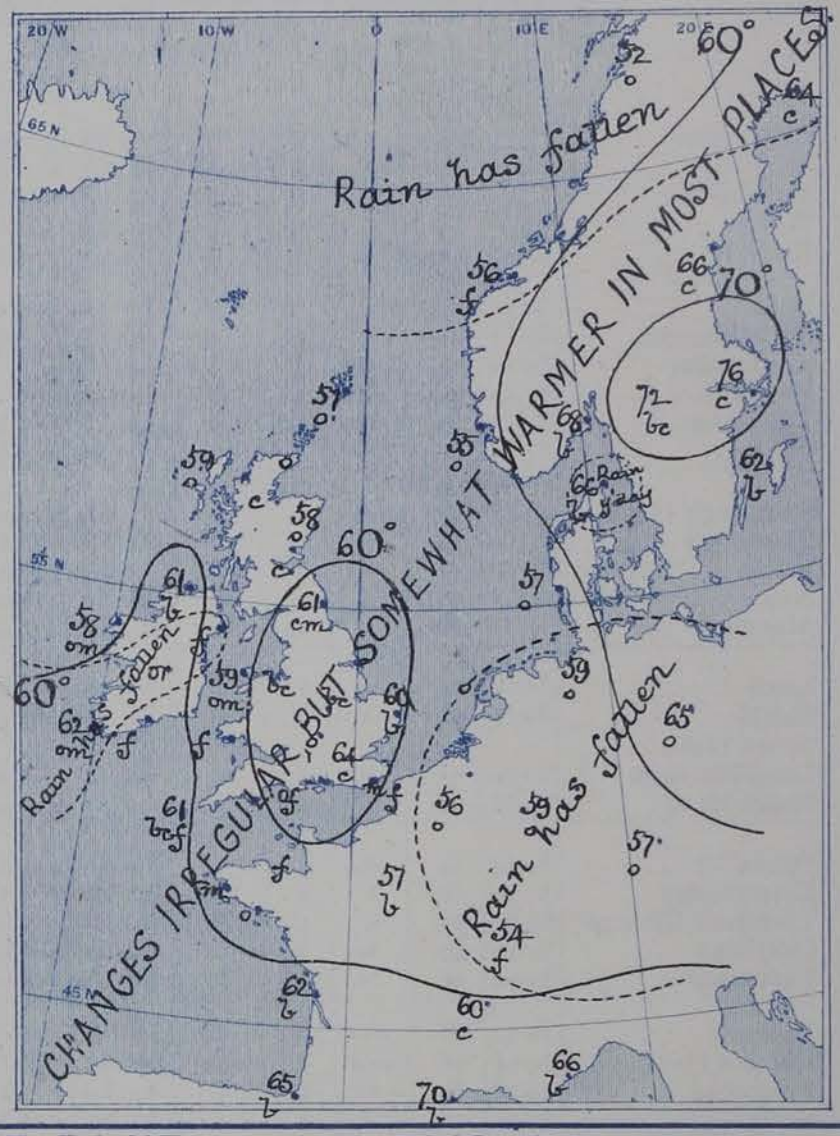


TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 . 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	--	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·3 ins: and more to 30·2 ins: over the Bay of Biscay, France, and the British Islands.
Lowest, 30·0 ins: and less, over the Baltic and Germany.
Gradients slight in the former district, moderate over Germany.
Barometer falling a little in Ireland, rising at the eastern stations. There seems to be a very shallow "thunderstorm" depression over our eastern counties.

TEMPERATURE

Highest, (1) 70° to 65° over the southern parts of France and above 60° over many parts of England; (2) 76° at Stockholm, 72° at Karlstad, and much above 60° all over Sweden.
Lowest, 55° both at Shudeemas and Donaghadee, 54° at Belfast, 57° at Paris and Munich.
The maxima recorded during yesterday exceeded 70° over the inland parts of England and Ireland, but not on the coasts.
The air this morning is very humid.

WIND

SW$^{\frac{1}{4}}$ in Ireland, very variable over Great Britain, NW$^{\frac{3}{4}}$ to W$^{\frac{3}{4}}$ over the countries lying to the eastward of the North Sea, N$^{\frac{3}{4}}$ over Scandinavia. Over the Bay of Biscay an anticyclonic circulation is prevalent.

WEATHER

Fair in our Islands as a whole, but misty or foggy in several places, and rainy at Parsonstown.
A little rain fell yesterday over Germany and some parts of Scandinavia, as well as in some localities in Ireland.
Bright Sunshine varied greatly – from 12 hrs at Aberdeen, at Worthing and Brighton to none at Pembroke.

SEA

Smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Weather is not so settled as it was yesterday; slight rain is probable over Ireland, thunder in some parts of England.

FORECASTS

For the 24 hours ending at NOON on 7TH JULY, 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW$^{\frac{1}{4}}$ winds; slight rain.
1 SCOTLAND EAST 2 ENGLAND N.E.	Variable airs; fair as a whole.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	Variable airs; close, thunder and rain locally.
6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	SW$^{\frac{1}{4}}$ breezes, light; fair as a whole, but local showers.
WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·04	61	58	N	6	m	2
Sumburgh Head	30·17	57	54	WNW	2	b	3
Stornoway... ...	30·13	62	59	S	2	o	2
Aberdeen	30·20	59	56	ENE	2	bc	2
Shields	30·19	60	57	E	3	bc	3
Malin Head ...	30·20	62	60	NNW	1	o	2
Belmullet	30·22	63	60	WSW	1	c	*
Holyhead	30·24	63	61	SW	2	ompd	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·30	64	62	SW	2	c	4
Scilly	30·32	63	60	WNW	3	o	0
Jersey	30·32	65	60	NW	3	b	3
Portland Bill ...	30·29	64	60	WNW	3	bc	2
Dungeness ...	30·21	68	62	SW	3	c	2
London (Westminster)	30·22	71	61	NW	2	c	*
Yarmouth ...	30·18	63	57	NNW	4	bc	4
Rochefort ...	30·29	69	63	NW	2	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine generally over Great Britain and France, also over the Baltic and northern Europe, dull and foggy at several of our western stations, dull and unsettled over Germany, with rain in places. Some rain later over Germany and the Netherlands, as well as in some part of Norway and Ireland.

Temperature beginning to rise generally over our Islands, falling over Russia. Morning readings highest (1) 80° and more over Greece, 70° and more to 60° over the Mediterranean, 60° and more over the southern half of our Islands and in the Netherlands; (2) 73° at Stockholm and above 70° at Hango, Karlstad, Hernösand and Haparanda. Lowest (1) 53° at Sumburgh Head, 57° at Wick and Malin Head, 58° in London and at the Helder; (2) 53° at Belfast and Braemar, 54° at Munich and below 60° in many parts of western and central Europe. Rising later to 70° or more over the inland parts of Ireland and England, to 72° at Paris, 75° at Nice, and 78° at Perpignan.

Wind (1) light to moderate and anticyclonic over our Islands and France; (2) Moderate, but cyclonic, over northern, central, and eastern Europe, viz. N over Scandinavia, NW over the North Sea and Western Germany, W over Austria-Hungary, E at Memel.

Barometer highest 30·3 ins. and more to 30·2 ins. over the Bay of Biscay, France, England and Ireland, and above 30·1 ins. in Scotland. Lowest, below 29·7 ins. over the northeast of Germany, below 30·0 ins. in a secondary over the northern part of the Adriatic, and below 30·1 ins. over the Riviera. Rising a little in our Islands later and over the Bay of Biscay.

General Remarks on the Weather over Europe for the 24 hours ended 8 am 5th July

Weather in morning fair but cloudy over the British Islands generally and France, very unsettled over the North Sea, Germany, and the Baltic, with rain in many places, but very fine over Scandinavia and Russia. Rain in considerable quantity later over Germany and the east and southeast of France, and slight showers over some of the western parts of our Islands; dull in many parts of Great Britain till the evening.

Temperature fallen fast over part of North Germany, not changed much elsewhere. Morning readings highest (1) 81° at Athens, above 70° in several part of Algeria, and above 60° over the Mediterranean generally; (2) 73° at Kucopio, 72° at Moscow, 70° in the southeast of Sweden, and above 60° at the Scandinavian stations generally. Lowest 52° at Sumburgh Head, 56° at Stornoway and Malin Head; 54° to 56° over the Netherlands, 53° to 58° over Austria. Not touching 70° in our Islands during day, but reaching 73° at Nice and 74° at Perpignan.

Wind NE over Scandinavia, NW, moderate, over Great Britain, NW to W and S over the North Sea and Germany, and strong in force. E at the mouth of the Elbe. Some tendency to become S (light) over Ireland. Falling still lighter in Great Britain later, but the S wind in Ireland making little advance.

Barometer highest (1) 30·3 ins. and more over the Bay of Biscay, Ireland, the southwest of England, and west of France; (2) 30·2 ins. at Archangel, and exceeding 30·0 ins. all over northern Russia, Finland, and the north of Scandinavia. Lowest 29·5 ins. to 29·7 ins. in a complex depression over North Germany; (2) below 30·2 ins. off our extreme northwest coasts. The high pressure area in the southwest spreading later more over England, depression over Germany breaking up.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Friday, 7th July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M.S.L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda	29.97	61	Z	0	b	30.07	+.26	57	52	-7	NNW	2	0	*	b	*	66	55	0.04
	Hernösand	30.00	67	N	2	b	30.12	+.15	64	58	-2	E	2	b	*	b	*	79	59	-
	Stockholm	30.02	66	Z	0	0	30.08	+.13	63	60	-13	NNW	2	0	*	0	*	82	59	0.95
	Wisby	30.03	64	SE	2	0	30.06	+.09	61	57	-1	NNE	4	bc	*	bc	*	68	52	-
	Karlstad	30.03	64	SE	2	0	30.09	+.14	65	62	-7	ENE	4	b	*	tlr	*	*	*	0.51
	Bodö	30.12	53	NNW	2	c	30.20	+.15	54	50	+2	W	2	c	1	c	*	57	52	-
	Christiansund ...	30.16	57	SE	2	c	30.14	-.05	60	56	+4	ENE	2	c	1	c	*	59	55	-
	Skudesnaes ...	30.10	55	NNW	6	0	30.15	+.07	54	52	-1	NNW	6	0	2	0	*	59	52	*
	Færder	29.99	71	NNW	2	b	30.06	+.09	66	63	-2	NE	2	0	1	b	*	75	64	-
	The Scaw	30.02	62	WNW	2	m	30.08	+.10	60	59	-6	NNW	1	m	0	m	*	75	57	-
	Fanö	30.11	56	NW	4	0	30.15	+.09	57	54	0	NW	4	0	*	0	*	61	55	-
BRITISH ISLANDS	Sumburgh Head ...	30.17	58	W	2	bc	30.13	-.05	56	56	-1	ESE	1	0	2	r,bc	*	61	53	-
	Stornoway	30.15	60	ESE	2	0	30.11	-.06	59	58	0	SW	3	r	3	0	1.7	63	54	0.02
	Wick	30.20	63	S	1	bc	30.15	-.06	65	60	+6	S	1	0	0	bc	*	68	53	-
	Nairn	30.17	63	NNE	1	b	30.14	-.07	64	61	+5	W	1	c	1	b	*	69	50	-
	Aberdeen	30.19	60	S	3	bc	30.16	-.06	67	61	+9	S	2	bc	1	bc	6.6	68	52	-
	Leith	30.18	63	NW	1	c	30.18	-.03	70	65	+11	W	1	bc	*	c	*	73	56	-
	Shields	30.21	61	SE	3	c	30.22	+.01	66	63	+5	W	3	b	2	c	*	66	54	-
	Spurn Head ...	30.22	58	ESE	3	b	30.24		61	59		W	1	b	2	b	*	63	55	-
	Loughborough ...	30.22	72	WNW	1	c	30.27	+.03	67	62	+2	WNW	2	bmw	*	c,o,bc,b	*	77	54	-
	Malin Head ...	30.20	63	WNW	2	c	30.18	-.03	60	60	-1	S	4	op	2	b,c	*	67	58	0.01
	Belmullet	30.21	60	SSW	3	om	30.18	-.03	59	58	+1	SSW	3	om	*	r,om	*	62	57	0.17
	Donaghadee ...	30.23	66	S	3	b	30.24	-.02	63	62	+8	W	3	b	3	b	*	67	53	-
	Liverpool (Bidston)	30.28	62	W	2	bc	30.29	+.04	61	59	-2	SE	1	o	1	bom	*	66	55	-
	Holyhead	30.27	62	SW	1	bc	30.29	+.03	57	57	-2	SW	2	f	1	bc	*	66	54	-
	Parsonstown ...	30.26	70	W	1	c	30.28	+.01	61	60	-1	SW	1	d	*	r.c	3.6	73	59	0.17
	Valencia	30.30	64	S	2	0	30.29	+.01	62	60	0	S	2	0	4	o m.o	1.8	67	59	-
	Roche's Point ...	30.31	63	SW	2	c	30.32	+.02	64	60	+5	W	2	c	3	c	*	66	58	0.12
	Pembroke	30.22	57	W	3	f	30.31	+.02	57	57	0	NW	2	f	2	f	0.0	59	55	0.02
	Scilly	30.32	61	W	1	of	30.32	.00	61	59	0	WSW	1	0	0	bc.of	5.4	66	58	-
	Portland Bill ...	30.27	63	NNW	3	b	30.30	+.02	64	61	+5	NNE	2	bm	2	c.b	*	66	[illegible]	-
	Jersey	30.31	62	WNW	3	0	30.31	.00	64	61	+4	WNW	2	bm	2	f	*	64	58	-
	Dungeness	30.22	60	ENE	2	0	30.26	+.03	59	59	-1	SSE	1	f	0	tlr,o	*	68	57	0.09
	London	30.22	72	SE	1	c	30.27	+.02	66	62	+2	Z	0	bm	*	c.t.bm	2.3	79	57	-
	Oxford	30.25	65	NW	2	0	30.28	+.02	66	62	+1	N	1	b	*	c.o	*	77	56	-
	Yarmouth	30.23	62	SE	2	b	30.24	+.02	61	58	+1	SE	3	b	3	b	*	63	57	-
GERMANY.	Cuxhaven	30.12	57	NW	3	0	30.17	+.11	57	54	-2	NW	3	0	*	0	*	59	55	-
	Berlin	30.01	66	NW	3	c	30.11	+.13	60	58	-5	NW	3	0	*	c	*	72	59	-
	Wiesbaden	*	*	*	*	*	30.22	+.02	59	55	0	NW	4	0	*	*	*	63	55	-
	Munich	30.21	57	W	5	r	30.23	.00	57	56	0	W	5	0	*	r	*	63	54	0.04
FRANCE & NETHERLANDS.	The Helder ...	30.21	57	NNW	2	0	30.25	+.07	58	54	+2	N	1	0	1	0	*	57	55	-
	Brussels	*	*	*	*	*	30.29	+.04	53	52	-3	ENE	1	0	*	b	*	69	49	-
	C. Gris Nez ...	30.24	61	Z	0	m	30.26	+.04	59	58	+2	WSW	1	f	1	m	*	68	54	-
	Paris	30.23	70	N	2	bc	30.29	+.01	61	59	+4	N	1	0	*	bc	*	75	53	-
	Brest	30.23	64	NNW	1	b	30.36	.00	59	58	+1	N	1	m	1	b	*	68	50	-
	Lorient	30.29	70	NNE	3	b	30.32	.00	55	55	-4	NE	2	m	1	b	*	72	52	-
	Rochefort	30.31	70	NNW	3	b	30.31	-.02	63	61	+1	E	3	b	*	b	*	73	57	-
	Belfort	30.23	59	NSW	4	m	30.24	.00	55	54	+1	WSW	1	f	*	m	*	63	51	-
	Lyons	30.20	66	N	1	b	30.23	-.01	62	59	+2	N	1	b	*	b	*	63	55	-
	Nice	30.04	63	SE	2	b	30.02	-.04	62	59	-4	SW	2	c	1	b	*	75	57	-
	Perpignan	30.15	77	NW	3	b	30.18	-.03	72	61	+2	NW	3	b	*	b	*	81	66	-
	Biarritz	30.21	73	NW	3	bc	30.21	-.03	66	63	+1	W	3	0	2	bc	*	73	61	-
SPAN. PEN.	Corunna																*			
	Lisbon	30.06	74	SSE	1	b	30.06	+.03	70	65	-5	SSW	3	b	*	b	*	82	64	-
	Azores (P. Delgada)	30.32	67	NE	1	b	30.32	.00	69	62	0	NNE	4	c	3	b	*	77	63	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

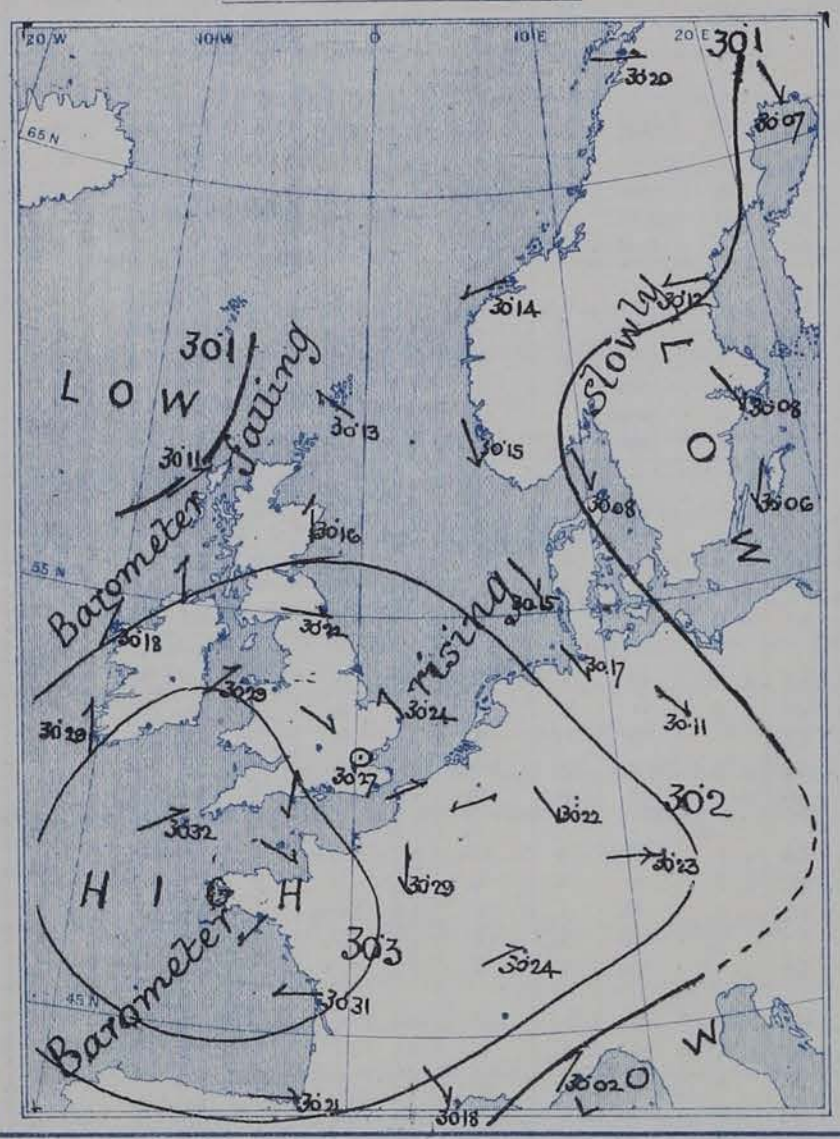
Bright Sunshine yesterday Southport 3.6 *hrs.*

WEATHER CHARTS

FOR Friday, 7th July, 1899.

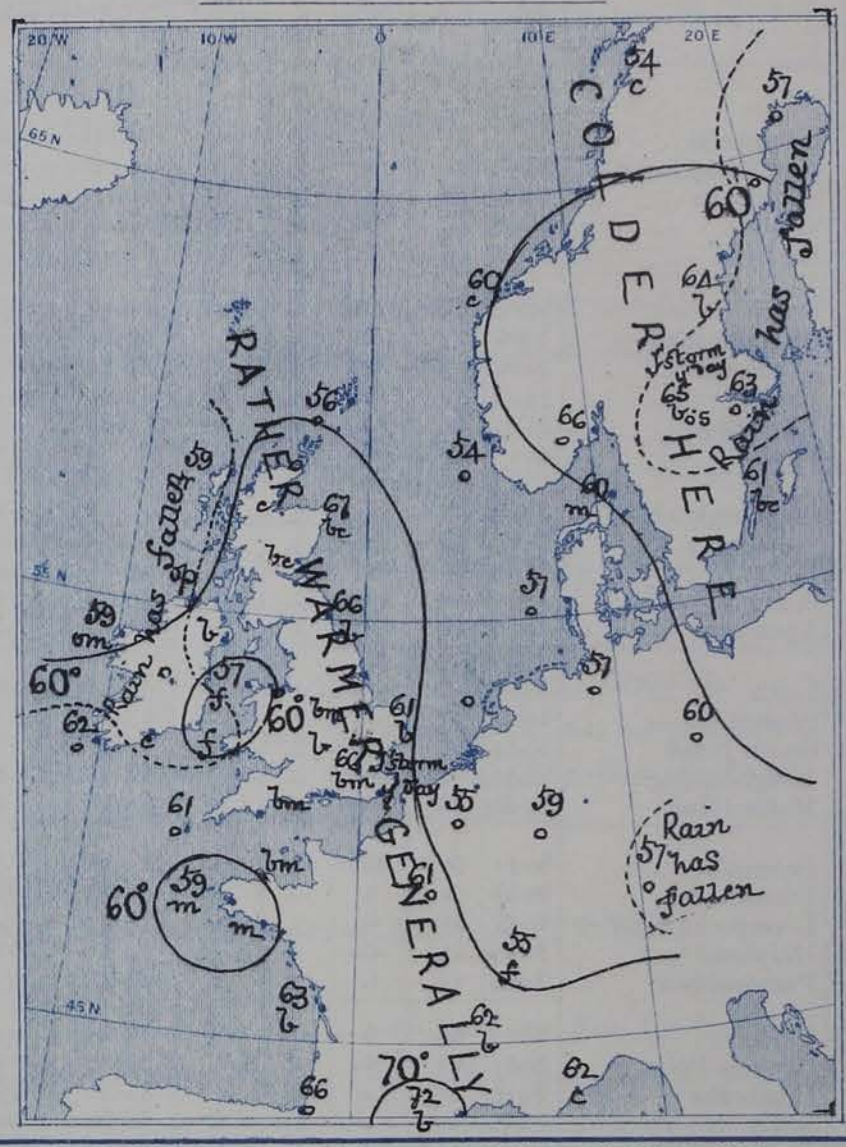
BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.
Force above 10 : *Force 5 to 7* : } Calm ⊙
Force 8 to 10 : *Force 1 to 4* : }
SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 . 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	--	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·3 in: and more in the southwest of our Islands and over the Bay of Biscay, and varying from 30·2 in: to 30·1 in: in the east and north.
Lowest, 30·06 in: and less over the Baltic.
Gradients slight. Distribution mainly anticyclonic.
Barometer still rising in the east, not changing at all decidedly in the west.

TEMPERATURE

Highest, 62° to 72° at the stations in the south and southwest of France, and above 60° over almost the whole of our Islands and their neighbourhood.
Lowest, 54° at Bodö and Shudesnass, 56° at Sumburgh Head, 57° at Lund, Cuxhaven, and Munich.
Maximum readings were recorded yesterday, as high as 73° to 79° over the inland parts of our Islands, 75° at Paris and Nice, 81° at Perpignan and 82° in London.

WIND

Still NE to NW over countries lying to the eastward of the North Sea, light and variable over France and Great Britain, SW to S in Ireland, the west of Scotland and the Shetlands.
The NE to NW wind in the far east is dying down.

WEATHER

Fine very generally, but with a good deal of haze or fog in the eastern part of the Channel; dull in the west of Ireland, with showers at Malin Head, dull and rainy in the Shetlands.
A little rain has fallen in a few places, and thunderstorms have occurred in the southeast of England.
Bright Sunshine recorded yesterday was small in amount generally – the largest values being 6·6 hrs at Aberdeen, and 12 hours at Dundrum; there was none at Scilly.

SEA

Smooth or nearly so on all our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No important change is indicated at present.

FORECASTS

For the 24 hours ending at NOON on 8th JULY, 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW and S breezes, moderate; slight rain.
1 SCOTLAND EAST	Very Variable airs; fine, warm.
2 ENGLAND N.E.	
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Same as No. 0.
7 ENGLAND N.W.	SW and Variable airs; fine, warm.
8 ENGLAND S.W.	
9 IRELAND NORTH	S and W breezes, light; fine, warm.
10 IRELAND SOUTH	
WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·09	59	55	NNW	6	o	2
Sumburgh Head	30·18	60	58	W	1	c	2
Stornoway... ...	30·18	61	58	SW	3	o	3
Aberdeen	30·21	64	58	SSE	2	bc	1
Shields	30·23	62	60	E	3	c	3
Malin Head ...	30·22	67	64	E	1	b	0
Belmullet	30·23	62	60	SW	2	r	*
Holyhead	30·26	66	62	SW	2	bc	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·30	63	61	SSW	2	om	*
Scilly	30·31	64	61	WSW	2	of	1
Jersey	30·33	63	60	NNW	3	f	3
Portland Bill..	30·29	68	61	NNW	2	c	2
Dungeness ...	30·22	65	65	W	1	tlr	0
London (Westminster)	30·21	75	66	NW	2	c	*
Yarmouth ...	30·23	62	58	ESE	2	b	2
Rochefort ...	30·24	73	66	NNW	3	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fair over the greater part of our Islands and northwestern Europe, but foggy or dull in many places, improving generally over the Baltic and Germany. Showers locally in some parts of our Islands, thunderstorms in Kent, Sussex, and Surrey, and a little rain at Munich. Clouds very heavy in London, but clearing at night.

Temperature inclined to rise generally. Morning readings highest (1) 81° at Malta, 80° at Athens, 76° at Brindisi and Sfax, 72° at Barcelona, above 60° in many parts of our Islands; (2) 76° at Moscow, and above 70° at several stations in northern Europe. Lowest 52° at Bodö, 55° at Donaghadee; 56° at Breslau, the Helder and Brussels, 54° at Belfast, 57° at Munich. Rising later to between 74° and 79° over the inland parts of Ireland and England, to 72° at Berlin, 75° at Paris, 81° at Perpignan and 82° at Lisbon.

Wind light and mainly anticyclonic (but very variable) over the British Islands and France; light to strong, but mainly cyclonic, from between NE. and NW. over the countries lying to the eastward of the North Sea, variable over the Mediterranean. Inclined to become S. in Ireland later, but not strong.

Barometer highest 30·3 ins. and more to 30·2 ins. over the Bay of Biscay, France, and the British Islands. Lowest below 29·9 ins. over Hungary, Russia, and Finland. Gradients rather irregular, but decreasing. Rising over Great Britain and France all day, inclined to fall in Ireland.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Saturday, 8th July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda	30·13	57	E	2	b	30·15	+·08	60	53	+3	SSE	2	c	*	b	*	66	48	–
	Hernösand	30·13	60	Z	0	c	30·13	+·01	62	58	–2	S	4	b	*	c	*	70	55	–
	Stockholm	30·13	66	E	2	b	30·13	+·05	69	60	+6	Z	0	b	*	b	*	73	59	–
	Wisby	30·13	63	ESE	4	bc	30·14	+·08	60	57	–1	NNE	4	b	*	bc	*	68	54	–
	Karlstad	30·08	69	S	2	b	30·08	–·01	68	64	+3	S	2	b	*	b	*	*	*	–
	Bodö	30·08	54	NE	4	b	30·06	–·14	57	52	+3	N	2	b	1	b	*	57	48	–
	Christiansund ...	30·14	62	NE	1	c	30·11	–·03	60	55	0	WNW	3	f	2	c	*	63	55	–
	Skudesnaes ...	30·16	56	NNW	6	o	30·14	–·01	59	57	+5	N	2	c	1	c.o	*	61	50	*
	Færder	30·07	68	SW	2	bc	30·08	+·02	65	62	–1	SW	2	o	2	bc	*	72	63	–
	The Skaw	30·10	64	ENE	1	m	30·09	+·01	64	60	+4	SSW	2	o	0	m	*	75	57	–
	Fanö	30·18	57	NW	4	o	30·16	+·01	59	56	+2	NW	5	c	*	o	*	59	55	–
BRITISH ISLANDS	Sumburgh Head ...	30·12	58	NSW	1	c	30·12	–·01	55	53	–1	WNW	1	bc	1	o, c	*	60	46	–
	Stornoway	30·16	64	NW	3	c	30·11	·00	56	54	–3	Z	0	o	0	c	5·6	64	49	0·03
	Wick	30·19	59	S	1	o	30·14	–·01	52	50	–13	Z	0	d	1	o	*	65	50	0·15
	Nairn	30·15	62	W	1	o	30·11	–·03	54	52	–10	E	2	r	1	o	*	66	52	0·12
	Aberdeen	30·16	59	NE	1	op	30·07	–·09	63	61	–4	S	2	c	1	pt.or	6·1	72	55	0·44
	Leith	30·17	70	SW	1	o	30·12	–·06	64	59	–6	WSW	3	bc	*	o	*	76	59	0·02
	Shields	30·19	70	SW	2	o	30·14	–·08	64	62	–2	Z	0	o	2	o, r	*	75	60	0·01
	Spurn Head ...	30·19	59	SE	3	c	30·14	–·10	63	62	+2	WNW	2	o	2	bc.thp	*	69	58	–
	Loughborough ...	30·21	75	W	1	o	30·21	–·06	63	59	–4	W	1	cu	*	c.t.om	*	81	58	–
	Malin Head ...	30·16	56	W	4	f	30·18	·00	55	53	–5	N	1	cp	1	f	*	63	52	0·03
	Belmullet	30·25	58	N	2	c	30·19	+·01	59	55	0	S	2	bc	*	omq.c	*	59	53	0·01
	Donaghadee ...	30·19	65	SSW	3	bcp	30·21	–·03	57	55	–6	W	3	bc	3	pt. bc	*	69	52	0·30
	Liverpool (Bidston).	30·26	63	WNW	1	c	30·19	–·10	63	61	+2	SW	1	c	1	c	*	66	55	0·07
	Holyhead	30·24	62	SW	2	c	30·20	–·09	58	57	+1	W	2	of	1	cf.c	*	64	56	–
	Parsonstown ...	30·23	67	NW	1	c	30·25	–·03	59	56	–2	SW	1	c	*	c	2·3	69	50	–
	Valencia	30·29	61	NW	1	c	30·23	–·06	62	59	0	SE	1	bc	3	opq.c	2·0	63	51	0·05
	Roche's Point ...	30·30	64	WSW	4	bc	30·25	–·07	60	57	–4	S	1	bc	2	bc	*	66	55	–
	Pembroke	30·29	60	NW	3	b	30·25	–·06	58	56	+1	WNW	3	o	2	b	6·6	63	56	–
	Scilly	30·31	65	WNW	1	bc	30·28	–·04	63	61	+2	WSW	1	c	0	o.bc	5·8	66	59	–
	Portland Bill ...	30·27	62	NW	2	b	30·26	–·04	61	58	–3	NNW	3	c	2	c.b	*	67	*	–
	Jersey	30·30	62	WNW	3	bm	30·27	–·04	59	59	–5	WNW	2	cf	2	b.f	*	66	55	–
	Dungeness	30·23	60	SSE	1	f	30·19	–·07	60	60	+1	Z	0	f	0	f	*	62	56	–
	London	30·21	79	NW	2	b	30·22	–·05	66	63	0	WNW	1	bm	*	bc. bl	8·5	82	54	–
	Oxford	30·23	68	NNW	2	b	30·22	–·06	64	58	–2	WSW	2	o	*	b.l	*	81	57	–
	Yarmouth	30·22	63	SSE	3	b	30·16	–·08	63	61	+2	SSE	2	b	2	b	*	64	57	–
GERMANY.	Cuxhaven	30·21	59	SW	3	o	30·20	+·03	57	55	0	W	2	o	*	o	*	61	55	–
	Berlin	30·17	62	W	1	o	30·19	+·08	60	55	0	W	2	o	*	o	*	66	58	–
	Wiesbaden	*	*	*	*	*	30·27	+·05	56	53	–3	NE	3	o	*	*	*	69	56	–
	Munich	30·26	55	SW	2	r	30·28	+·05	55	55	–2	W	2	o	*	r	*	69	55	0·35
FRANCE & NETHERLANDS.	The Helder ...	30·25	59	Z	0	b	30·21	–·04	63	60	+5	WSW	1	b	1	b	*	63	50	–
	Brussels	*	*	*	*	*	30·24	–·05	68	61	+15	WSW	1	b	*	b	*	71	53	–
	C. Gris Nez ...	30·24	64	SW	1	m	30·22	–·04	60	60	+1	SW	1	f	1	m	*	64	55	–
	Paris	30·24	73	N	2	b	30·25	–·04	65	60	+4	ESE	1	b	*	b	*	75	59	–
	Brest	30·30	62	N	2	o	30·27	–·09	57	57	–2	NE	1	m	1	o	*	66	52	–
	Lorient	30·26	65	W	3	bc	30·24	–·08	61	57	+6	E	1	b	1	bc	*	73	52	–
	Rochefort	30·21	69	NW	4	b	30·20	–·11	67	63	+4	NE	2	b	*	b	*	75	61	–
	Belfort	30·20	64	ENE	3	m	30·26	+·02	54	53	–8	ENE	2	m	*	m	*	74	49	–
	Lyons														*		*			
	Nice	30·04	64	NNW	4	b	30·04	+·02	72	59	+10	Z	0	b	1	b	*	79	61	0·24
	Perpignan	30·11	81	NE	3	b	30·13	–·05	73	64	+1	NE	2	b	*	b	*	84	61	–
	Biarritz	30·17	71	NW	2	b	30·12	–·09	63	63	–1	SSW	3	b	2	b	*	73	63	–
SPAN. PEN.	Corunna																*			
	Lisbon	30·07	71	WS	1	b	30·10	+·04	60	54	–4	SW	3	b	*	b	*	81	63	–
	Azores (P. Delgada)	30·37	67	NE	2	b	30·36	+·04	70	63	+1	NE	4	c	3	b	*	75	64	–

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 2·2 hrs.

WEATHER CHARTS

FOR Saturday, 8th July, 1899.

BAROMETER, WIND AND SEA.

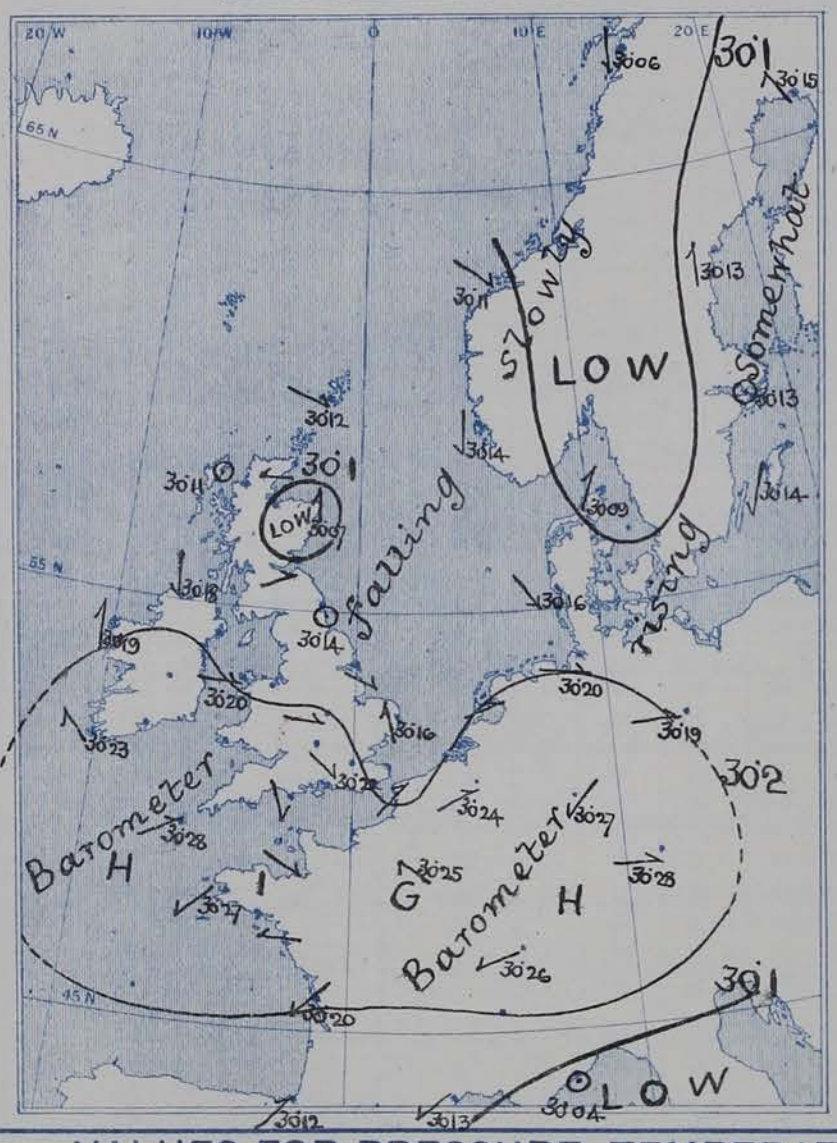
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm⊙

Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ : }

SEA.—Rough : *High*

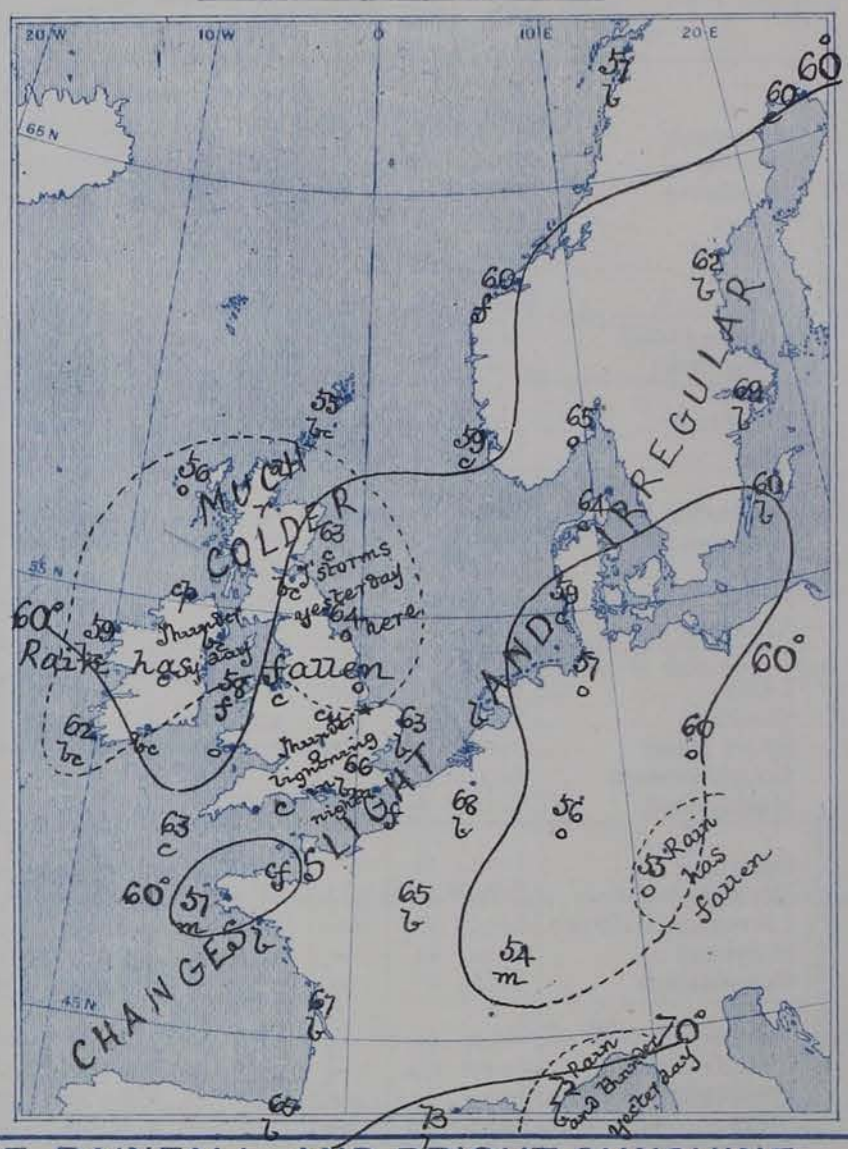


TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 . 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, (1) 30·2 in: and upwards in a large anticyclone covering the southwest of our Islands, the north of France, the Netherlands, and west of Germany.
Lowest, Below 30·1 in: in a small shallow depression over the east of Scotland, and also in a larger system over Scandinavia.
Gradients slight – irregular in the north and east.
Barometer falling irregularly in our Islands.

TEMPERATURE

Highest, 73° to 65° in the south and southwest of France, above 60° over England and the southern parts of Ireland, 68° to 60° over Sweden.
Lowest, 52° at Wick, 54° at Nairn, 55° at Sumburgh Head and Malin Head
The maxima recorded yesterday exceeded 80° over the inland parts of England, but were much lower on the coasts. Thus at Dungeness the maximum was only 62° or 20° lower than that in London. There has been a sudden fall in the thermometer over the north of Scotland during the night.

WIND

Extremely light and variable in all parts of our Islands and their neighbourhood; in the west of France they are chiefly from the NE.d, in our Islands they are S. or W.

WEATHER

Less settled than of late.
A little rain has fallen over the northern parts of the Kingdom, thunder has occurred in many places, and much lightning in London and at Oxford.
Bright Sunshine recorded yesterday was again small except in London and on parts of our southeast coasts.

SEA

Slight or smooth on all coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone seems to be breaking up, and still less settled weather is probable.

FORECASTS

For the 24 hours ending at NOON on 9th JULY, 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Varying airs; changeable, some rain and thunder locally.
1 SCOTLAND EAST	
2 ENGLAND N.E.	
3 ENGLAND EAST	Varying W. breezes, light; fair close, some thunderstorms later.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Same as Nos 0 to 2.
7 ENGLAND N.W.	
8 ENGLAND S.W.	SW. and S. breezes, light; fair.
9 IRELAND NORTH	
10 IRELAND SOUTH	
WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·19	61	56	SW	4	c	2
Sumburgh Head	30·12	59	57	WSW	1	o	2
Stornoway... ...	30·14	61	59	NW	4	c	4
Aberdeen	30·15	68	63	SW	1	o g p t	1
Shields	30·21	70	66	S	2	o	2
Malin Head ...	30·18	59	59	SW	4	f	2
Belmullet	30·24	58	57	NW	2	o g m	*
Holyhead	30·27	64	61	SW	2	c f	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·29	62	60	W	3	o p	4
Scilly	30·33	65	62	W	1	o	0
Jersey	30·33	66	62	WNW	3	b	3
Portland Bill ...	30·30	65	62	WNW	1	c	2
Dungeness ...	30·26	62	61	S	1	f	1
London (Westminster)	30·23	78	67	NNW	2	bc	*
Yarmouth ...	30·24	64	60	SSE	4	b	3
Rochefort ...	30·24	75	69	NW	3	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over France and the greater part of the British Islands; foggy or hazy in many places, with slight rain at our extreme northwestern stations; fair over Scandinavia and Russia, dull and unsettled over northern Europe, with rain in several places. Rain falling later in the north and northwest of our Islands, in South Germany, and at Nice; thunder and lightning in many parts of our Islands, and a solar halo at Oxford.

Temperature still rising over our Islands, fallen over northern Europe. Morning readings highest 80° at Athens and Barcelona, and above 70° over the western and southern shores of the Mediterranean generally, 70° at Lisbon and at Leith, more than 60° over many parts of our Islands, Central Europe, and Sweden. Lowest (1) 54° at Thurso, 59° at Stornoway and Belmullet; (2) 55° at Brussels, 56° at Münster, 57° at Hague and Cracow. Rising later to 70° and more over the inland parts of England, and to 84° at Perpignan.

Wind (1) light N over Finland, the Baltic, Poland and Hungary; (2) light, anticyclonic and variable over our Islands and France; (3) light and very variable over the Mediterranean generally. Little change later.

Barometer (1) highest 30·3 in: and more to 30·2 in: in an anticyclone of somewhat irregular form, covering the Bay of Biscay, France, the Netherlands, England, and Ireland, and extending far to the northward and northeastward in a "ridge-like" form; (2) 30·2 in: at Porto. Lowest, below 30·0 in: over Russia and Turkey in Europe. Giving way a little in our Islands later – most in London.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy). o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Sunday 9th July, **1899.**

Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb.	Wet Bulb.	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda	30·07	59	Z	0	bc	30·01	−·14	58	50	− 2	S	4	0	*	bc	*	66	45	—
	Hernösand	30·08	59	Z	0	b	30·04	−·09	57	55	− 5	Z	0	r	*	b	*	66	50	0·08
	Stockholm	30·08	66	S	2	0	30·08	−·05	70	63	+ 1	SSW	2	b	*	0	*	75	61	0·04
	Wisby	30·12	63	W	4	b	30·13	−·01	69	59	+ 9	SSW	4	b	*	b	*	70	54	—
	Karlstad	30·03	67	SW	2	b	30·04	−·04	64	60	− 4	SW	2	0	*	b	*	*	*	—
	Bodö	30·04	58	W	4	c	30·00	−·06	57	55	0	Z	0	r	1	c	*	61	52	0·24
	Christiansund ...	30·13	61	WNW	1	c	30·02	−·09	58	55	− 2	ENE	3	b	2	c	*	61	55	—
	Skudesnaes ...	30·08	61	NW	2	0	30·06	−·08	59	57	0	S	1	c	1	b,0	*	64	52	*
	Færder (X'iania Fjord)	30·03	64	S	4	c	30·02	−·06	64	62	+ 1	NNW	2	0	1	c	*	68	63	—
	The Scaw (Skagen)	30·06	63	NSW	1	m	30·05	−·04	65	62	+ 1	WNW	3	m	0	m	*	75	59	—
	Fanö	30·17	57	WNW	3	0	30·14	−·02	60	59	+ 1	WNW	2	c	*		*	63	57	—
BRITISH ISLANDS	Sumburgh Head ...	30·07	52	ENE	1	r	29·89	−·23	50	50	− 5	S	3	0	3	0,r	*	57	49	0·05
	Stornoway	30·02	59	S	3	c	29·72	−·39	58	57	+ 2	SSW	5	0	5	0,c	1·8	60	52	—
	Wick	30·05	57	S	2	0	29·84	−·30	58	55	+ 6	S	3	0	2	0	*	65	49	0·08
	Nairn	30·07	58	Z	0	0	29·84	−·27	63	58	+ 9	SW	3	c	2	0	*	64	42	0·05
	Aberdeen	30·06	58	N	2	c	29·94	−·13	58	53	− 5	SW	4	cq	2	cq,c	4·4	68	52	—
	Leith	30·08	65	WSW	2	c	29·93	−·19	65	59	+ 1	SSW	3	c	*	c	*	69	50	—
	Shields	30·09	66	WSW	3	c	30·02	−·12	66	61	+ 2	SSW	3	c	2	r,c	*	68	48	0·13
	Spurn Head ...	30·11	64	SW	1	c	30·10	−·04	66	60	+ 3	Z	0	b	1	c	*	74	57	—
	Loughborough ...	30·14	72	W	2	bc	30·14	−·07	62	58	− 1	WSW	2	c	*	c,bc,c	*	78	51	—
	Malin Head ...	30·05	57	E	4	bc	29·82	−·36	59	58	+ 4	SW	5	ogr	3	bc	*	61	55	—
	Belmullet	30·04	61	S	3	0	29·82	−·37	60	59	+ 1	SSW	7	r	*	bc,0	*	64	58	0·12
	Donaghadee ...	30·13	60	SSW	3	b	29·98	−·23	64	62	+ 7	SSW	4	bc	3	b	*	63	52	—
	Liverpool (Bidston).	30·18	60	WNW	1	bc	30·08	−·11	65	61	+ 2	SSW	1	c	1	bc	*	65	53	0·01
	Holyhead	30·17	61	SW	1	bc	30·06	−·14	59	58	+ 1	SW	3	cf	2	bc	*	65	56	—
	Parsonstown ...	30·11	69	W	1	0	29·97	−·28	63	59	+ 4	SE	1	0	*	0	7·9	71	57	—
	Valencia	30·12	62	S	3	omg	29·97	−·26	61	60	− 1	S	4	og	5	o,omg	5·4	65	58	0·01
	Roche's Point ...	30·18	63	SW	3	0	30·05	−·20	60	58	0	SW	4	0	4	0	*	65	58	—
	Pembroke (St. Ann's Hd.)	30·20	60	SW	3	0	30·13	−·12	60	59	+ 2	SW	4	c	3	bc,0	8·1	63	57	—
	Scilly	30·24	65	WSW	2	c	30·16	−·12	64	61	+ 1	SSW	1	c	0	c	13·4	70	59	—
	Jersey (St. Aubin's)	30·23	69	WNW	3	bw	30·20	−·07	66	63	+ 7	WNW	2	bc	2	b,cm	*	72	53	—
	Portland Bill ...	30·21	63	WNW	2	b	30·20	−·06	60	59	− 1	N	1	c	1	b	*	67	55	—
	Dungeness	30·13	64	WSW	4	bc	30·12	−·07	63	60	− 3	W	2	b	1	bc	*	69	55	—
	London (Brixton) ...	30·14	77	NW	2	bc	30·15	−·07	64	56	− 2	NW	1	bc	*	bc	5·7	80	56	—
	Oxford	30·16	66	WSW	2	b	30·16	−·06	61	58	− 3	WSW	1	cm	*	b	*	76	54	—
	Yarmouth	30·12	63	SSE	1	bc	30·13	−·03	62	58	− 1	N	2	bc	2	tbr,bc	*	65	55	0·36
GERMANY.	Cuxhaven	30·17	61	W	1	b	30·14	−·06	57	56	0	Z	0	f	*	b	*	63	55	—
	Berlin	30·18	60	WNW	1	0	30·17	−·02	61	56	+ 1	WSW	1	0	*	0	*	63	59	—
	Wiesbaden	*	*	*	*	*	30·19	−·08	59	56	+ 3	SE	3	b	*	*	*	66	50	—
	Munich	30·24	59	W	2	bc	30·22	−·06	59	56	+ 4	SE	2	c	*	bc	*	64	54	—
FRANCE & NETHERLANDS.	The Helder ...																*			
	Brussels	*	*	*	*	*	30·15	−·09	67	64	− 1	WNW	1	b	*	0	*	78	57	—
	C. Gris Nez ...	30·19	61	SW	2	m	30·15	−·07	63	60	+ 3	SW	1	b	1	m	*	66	55	—
	Paris	30·17	66	N	2	r	30·17	−·08	64	61	− 1	NW	1	b	*	r	*	78	58	0·04
	Brest	30·27	70	N	1	b	30·20	−·07	54	53	− 3	NE	1	b	1	b	*	79	48	—
	Lorient	30·19	70	W	3	bc	30·19	−·05	59	57	− 2	E	3	bc	1	bc	*	82	55	—
	Rochefort	30·12	72	NW	4	b	30·12	−·08	66	64	− 1	NE	2	b	*	b	*	84	63	—
	Belfort	30·13	63	ENE	3	m	30·14	−·12	57	56	+ 3	ENE	3	f	*	m	*	72	51	—
	Lyons	30·10	73	NE	1	b	30·14	−·06	64	55	+ 3	N	1	b	*	b	*	77	57	—
	Nice	30·02	71	SW	1	c	30·05	+·01	66	60	− 6	SW	2	b	0	c	*	82	63	—
	Perpignan	30·05	78	SE	1	b	30·08	−·05	73	65	0	Z	0	bc	*	b	*	88	61	—
	Biarritz	30·06	73	W	3	b	30·08	−·04	68	65	+ 3	WSW	4	0	2	b	*	75	65	—
SPAN. PEN.	Corunna																*			
	Lisbon	30·09	71	N	2	b	30·10	·00	71	63	+ 5	NW	3	b	*	b	*	79	64	—
	Azores (P. Delgada)	30·38	68	ESE	1	bc	30·36	·00	70	64	0	NNE	1	c	2	bc	*	79	63	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 8·2 *hrs.*

WEATHER CHARTS

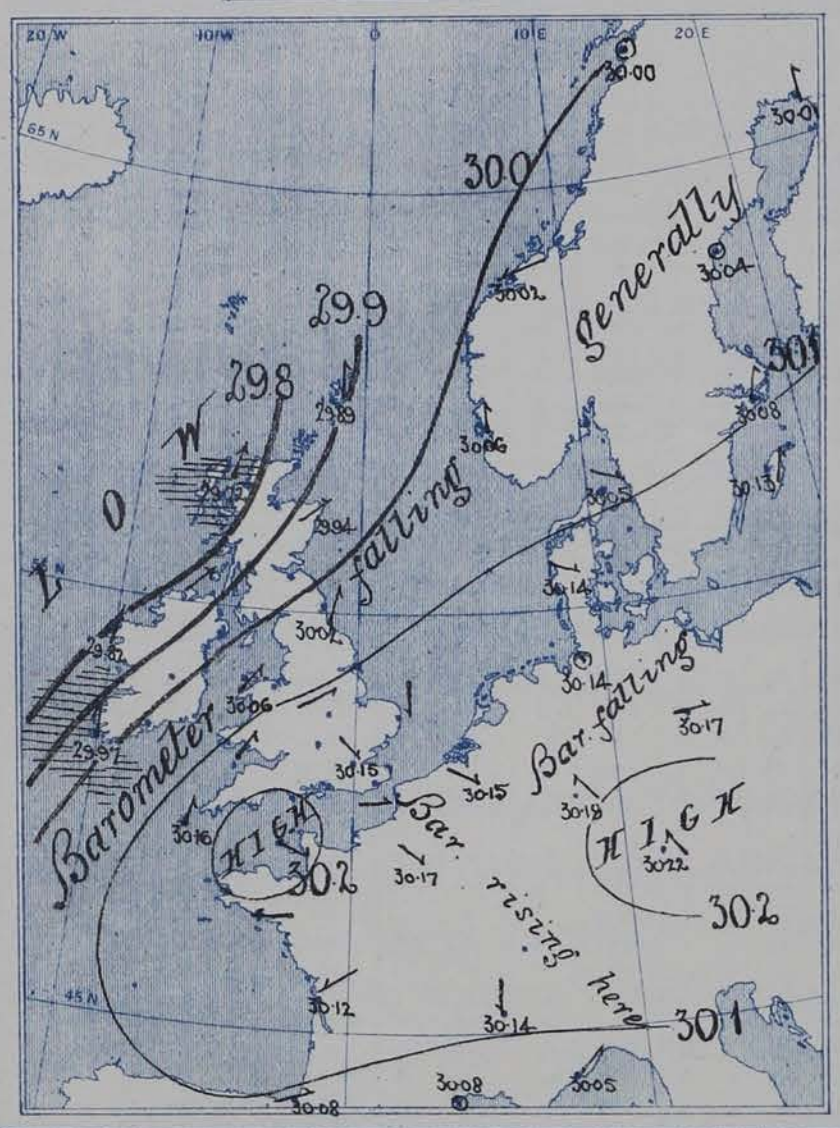
FOR Sunday, 9th July, 1899.

BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

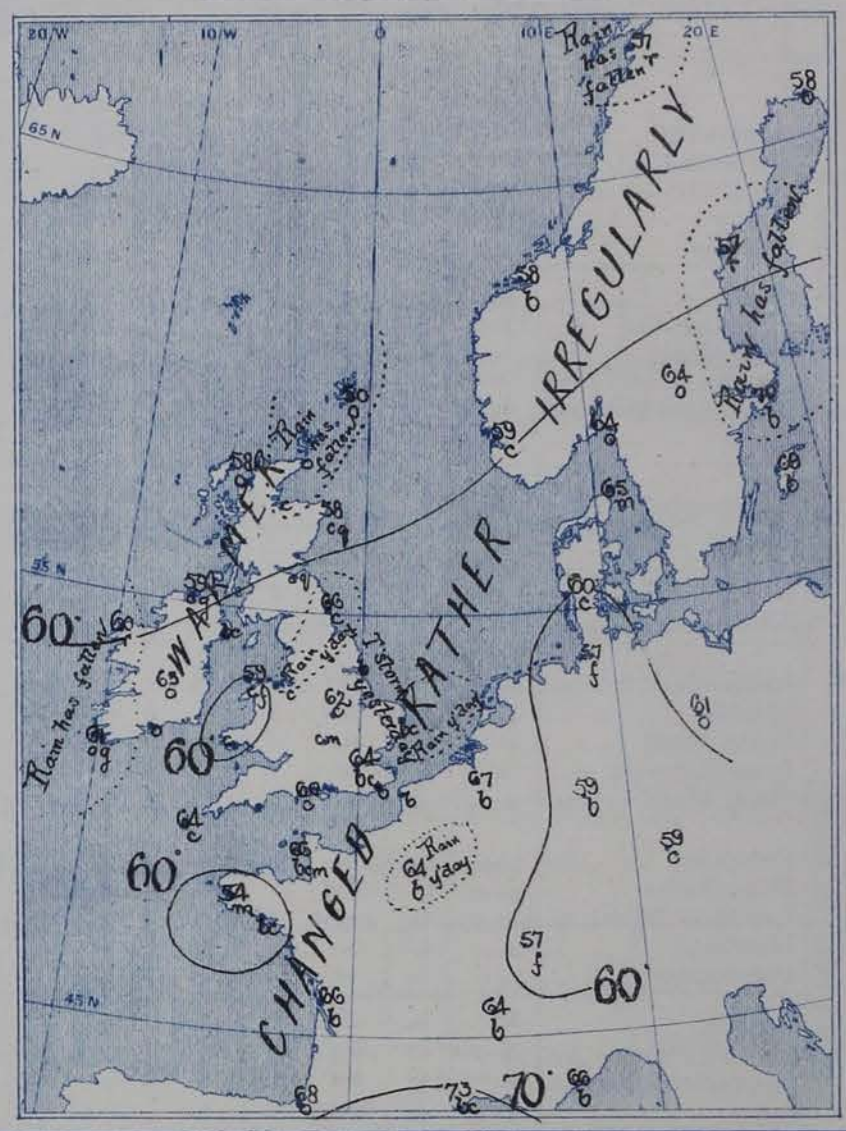
Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ : }

SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 . 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	--	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·22 in: at Munich, 30·20 in: at Brest, Jersey, and Portland Bill, and exceeding 30·1 in: all over France, Germany, the Baltic, and the southern half of England.
Lowest, 29·72 in: at Stornoway, and very little above 29·8 in: over the northern parts of Ireland and Scotland generally.
Gradients rather steep in the extreme northwest and north of our Islands generally — very slight in the south and east.
Barometer falling rather decidedly on our western and northern coasts, slightly in the east and south and over France & Germany.

TEMPERATURE

Highest, (1) 73° at Perpignan, 71° at Lisbon, 68° to 64° over the southern parts of France and the south of England generally; (2) 70° at Stockholm, 64° at Karlstad and Sandö.
Lowest, (1) 50° at Sumburgh Head, 58° at Stornoway, Aberdeen and Malin Head, 59° at Holyhead; (2) 57° at Brest, 59° at Munich and Wiesbaden.
It rose to between 75° and 80° over the inland parts of England yesterday, to 78° at Brussels and Paris, to 84° at Rochefort, 88° at Perpignan.

WIND

(1) Light and variable over the Continent and the southeastern parts of England; (2) S. to SW. in Ireland and Scotland, and blowing strongly at Belmullet, and with moderate force in the Irish Channel and east of Scotland.

WEATHER

Fine over France, the Netherlands, and the east and south of England, as well as in the south of Sweden.
Cloudy elsewhere, with rain in the northwest of Ireland and also at Hernösand and Bodö.
Showers fell yesterday in several parts of the United Kingdom, with thunderstorms at Spurn Hd and Yarmouth.
Bright Sunshine recorded yesterday ranged from 13·4 hrs at Scilly to 1·8 hrs at Stornoway.

SEA

Rather rough at Stornoway and Valencia, moderate in the Irish Sea, slight to very smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 10th JULY 1899.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	NONE ISSUED.	6	SCOTLAND WEST	NONE ISSUED.
1	SCOTLAND EAST		7	ENGLAND N.W.	
2	ENGLAND N.E.		8	ENGLAND S.W.	
3	ENGLAND EAST		9	IRELAND NORTH	
4	MIDLAND COUNTIES		10	IRELAND SOUTH	
5	ENGLAND SOUTH			WARNINGS	NONE ISSUED

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·14	64	59	NNW	4	b	1
Sumburgh Head	30·10	56	54	ESE	1	o	1
Stornoway... ...	30·08	59	55	S	2	o	2
Aberdeen	30·06	61	57	NW	4	cq	2
Shields	30·10	64	62	E	1	r	2
Malin Head ...	30·14	60	57	E	2	bc	1
Belmullet	30·12	62	59	SSW	3	bc	*
Holyhead	30·20	65	60	W	1	b	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·17	64	61	S	3	o	4
Scilly	30·27	68	64	WSW	2	c	0
Jersey	30·27	67	64	NW	3	c	3
Portland Bill ...	30·24	66	62	WNW	2	b	2
Dungeness ...	30·16	65	62	SSW	4	o	3
London (Westminster)	30·18	76	66	WNW	3	bc	*
Yarmouth ...	30·14	62	60	SE	3	tlr	3
Rochefort ...	30·18	80	70	NW	2	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over France, western Germany, the Netherlands, the North Sea and England, rainy in some parts of Central Europe and in Scotland, dull and unsettled in Ireland. At little rain later in some portions of our western and northern districts, considerable thunderstorms in the southeast and east of England, rain at Paris and in various parts of Scandinavia.

Temperature in morning fallen considerably in Scotland, (as much as 13° at Wick and 10° at Nairn) again over several parts of Central Europe. Morning readings highest (1) 78° to 70° in many parts of the Mediterranean, 66° to 60° over North Germany, above 60° over England; (2) 69° at Riga and Stockholm, 68° at Karlstad, 63° at Uleaborg. Lowest, (1) 52° at Wick, 55° at Sumburgh Hd and Malin Hd, 58° at Holyhead; (2) 54° at Brefort, 55° at Munich, 56° at Wiesbaden, 58° at Cracow. Rising later to 71° at Parsontown, to between 74° and 80° over England, to 78° at Paris, 84° at Rochefort, and 88° at Perpignan.

Wind very light and variable, but mainly N to NW over the Baltic and Poland, and from the S in Ireland, and from E. in the west of France. The S current freshening a little in the west and northwest of our Islands later.

Barometer highest 30·2 in: and more in an anticyclone covering France, Western Germany, and the greater part of Ireland and England — its northern margin being rather badly defined. (2) Above 30·1 in: over the northeast of Africa. Lowest below 30·1 in: over the northern and central parts of Scandinavia, and also in a small depression over Scotland; below 29·8 in: over the Black Sea. Falling slowly over our Islands during the day, rising slightly at the Scaw.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Monday, 10th July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M.S.L.	Change since Yesterday.	Temperature. Dry Bulb.	Wet Bulb.	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda	29.94	59	N	2	0	29.98	-.03	63	58	+5	N	2	bc	*	0	*	66	57	-
	Hernösand	30.00	62	S	2	b	30.01	-.03	64	61	+7	S	2	bc	*	b	*	68	54	-
	Stockholm	30.05	65	SSW	4	b	30.08	.00	71	64	+1	W	2	b	*	b	*	77	57	-
	Wisby	30.13	64	SSW	4	b	30.15	+.02	63	60	-6	W	4	b	*	b	*	73	54	-
	Karlstad	30.03	67	S	2	b	30.07	-.03	64	61	0	SW	2	c	*	b	*	*	*	-
	Bodö	30.01	54	L	0	b	29.96	-.04	60	54	+3	ESE	4	b	1	b	*	60	50	-
	Christiansund ...	29.94	64	NE	2	b	29.89	-.13	62	57	+4	ESE	1	0	0	b	*	66	57	-
	Skudesnaes ...	30.02	60	SW	2	c	30.01	-.05	59	57	0	S	6	m	4	o, c	*	61	52	*
	Færder (X'iania Fjord)	30.00	68	SW	4	m	30.05	+.03	65	63	+1	SSW	4	m	3	m	*	70	63	-
	The Scaw (Skagen)	30.07	66	WNW	1	m	30.12	+.07	60	59	-5	WSW	2	m	0	m	*	73	57	-
	Fanö	30.10	63	SW	1	bc	30.12	-.02	62	60	+2	SE	2	b	*	bc	*	72	57	-
BRITISH ISLANDS	Sumburgh Head ...	29.70	56	S	4	0	29.84	-.05	55	53	+5	WSW	2	c	4	0	*	61	49	0.12
	Stornoway	29.67	55	WNW	4	c	29.84	+.12	57	54	-1	W	3	c	3	d. c	0.0	59	49	0.20
	Wick	29.74	56	S	3	r	29.89	+.05	60	57	+2	S	2	bc	1	r	*	62	46	0.20
	Nairn	29.73	62	SW	1	r	29.89	+.05	57	52	-6	W	1	c	1	r	*	67	50	0.05
	Aberdeen	29.82	61	S	2	ogr	29.91	-.03	54	53	-4	NE	2	op	1	c. or g	4.9	65	52	0.37
	Leith	29.86	68	SSW	3	c	29.90	-.03	55	54	-10	WSW	2	r	*	c	*	72	53	0.08
	Shields	29.95	68	SW	3	c	29.91	-.11	60	60	-6	SSW	3	op	2	cp, r	*	73	57	0.09
	Spurn Head ...	30.01	69	SW	3	c	29.99	-.11	65	62	-1	SSW	3	c	2	c	*	75	60	-
	Loughborough ...	30.05	73	SW	4	c	30.02	-.12	63	59	+1	SSE	2	o	*	c. bc. c. o	*	78	59	-
	Malin Head ...	29.80	55	N	5	o	29.91	+.09	56	54	-3	NW	3	cgp	1	rf. o	*	60	54	-
	Belmullet	29.87	59	NNW	3	o	29.96	+.14	57	53	-3	NW	2	o	*	r. o	*	60	49	0.34
	Donaghadee ..	29.89	60	S	3	r	29.92	-.06	56	54	-8	N	2	o	3	rg	*	65	51	0.34
	Liverpool (Bidston).	30.02	64	SW	3	o	29.94	-.14	63	61	-2	SE	2	c	2	o. r	*	70	57	0.17
	Holyhead	30.00	60	SW	5	om	29.91	-.15	58	57	-1	NW	3	f	2	om	*	63	56	0.27
	Parsonstown ...	29.88	62	SW	1	r	29.98	+.01	57	54	-6	SW	1	c	*	o. r	0.2	67	52	0.28
	Valencia	29.89	61	SW	4	f	29.97	.00	58	54	-3	L	0	bcv	4	rf	0.0	63	55	0.55
	Roche's Point ...	29.94	59	SW	5	r	30.02	-.03	60	57	0	N	1	b	2	r	*	64	55	0.22
	Pembroke (St. Ann's Hd.)	30.05	58	WSW	5	o	29.95	-.18	60	59	0	SSW	3	f	4	o	2.4	63	59	0.15
	Scilly	30.10	67	SSW	2	c	30.02	-.14	63	62	-1	SW	3	m	1	c	9.8	71	60	0.02
	Jersey (St. Aubin's)	30.13	72	W	2	bf	30.10	-.10	65	62	-1	W	2	om	2	bcf, b	*	73	56	-
	Portland Bill ...	30.14	62	W	2	bc	30.08	-.12	60	59	0	SSW	2	o	2	bc	*	66	55	-
	Dungeness	30.06	65	SW	3	b	30.09	-.03	61	59	-2	SW	2	c	1	o, b	*	68	58	-
	London (Brixton) ...	30.14	75	NW	1	b	30.08	-.07	64	59	0	SW	2	o	*	bc. c, l	4.8	79	59	-
	Oxford	30.06	68	SW	2	bc	30.05	-.11	62	59	+1	S	1	og	*	bc	*	76	57	-
	Yarmouth	30.07	66	SE	3	bc	30.04	-.09	65	62	+3	SW	1	bc	2	bc	*	67	58	-
GERMANY	Cuxhaven	30.09	63	L	0	o	30.10	-.04	63	62	+6	SW	1	b	*	om	*	66	57	-
	Berlin	30.11	65	SSW	1	b	30.15	-.02	62	59	+1	L	0	b	*	b	*	72	55	-
	Wiesbaden	*	*	*	*	*	30.14	-.05	64	60	+5	E	2	b	*	*	*	73	55	-
	Munich	30.16	60	L	0	b	30.20	-.02	60	57	+1	W	2	b	*	b	*	66	50	-
FRANCE & NETHERLANDS	The Helder ...	30.08	65	ENE	1	b	30.08		70	65		L	0	b	0	b	*	70	57	-
	Brussels	*	*	*	*	*	30.13	-.02	60	60	-7	L	0	f	*	b	*	79	54	-
	C. Gris Nez ...	30.11	66	SW	2	c	30.11	-.04	62	59	-1	SW	1	c	1	c	*	70	59	-
	Paris	30.10	77	NNW	2	b	30.14	-.03	68	62	+4	NNE	1	c	*	b	*	79	56	-
	Brest	30.14	68	L	0	b	30.10	-.10	61	59	+7	SW	2	o	1	b	*	73	50	-
	Lorient	30.15	73	W	2	b	30.12	-.07	61	59	+2	NNW	1	m	1	b	*	79	57	-
	Rochefort	30.06	72	NW	3	b	30.08	-.04	67	64	+1	NW	2	bc	*	b	*	81	63	-
	Belfort	30.06	66	L	0	o	30.10	-.04	63	59	+6	L	0	m	*	o	*	73	52	-
	Lyons	30.06	75	N	2	b	30.10	-.04	66	60	+2	NNW	1	b	*	b, l	*	79	59	-
	Nice	30.02	67	SW	4	c	30.05	.00	69	65	+3	L	0	bc	0	c	*	79	61	-
	Perpignan	30.01	84	NW	2	bc	30.07	-.01	73	64	0	L	0	b	*	bc	*	87	60	-
	Biarritz	30.06	71	W	4	c	30.07	-.01	67	66	-1	NSW	3	o	2	c	*	75	64	-
SPAN. PEN.	Corunna																*			
	Lisbon	30.07	67	NE	3	b	30.10	.00	64	61	-7	NNW	4	o	*	b	*	84	61	-
	Azores (P. Delgada)	30.37	68	S	2	bc	30.33	-.03	70	64	0	WNW	2	c	2	bc	*	79	63	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Brights Sunshine yesterday Southport 4·4 hrs.

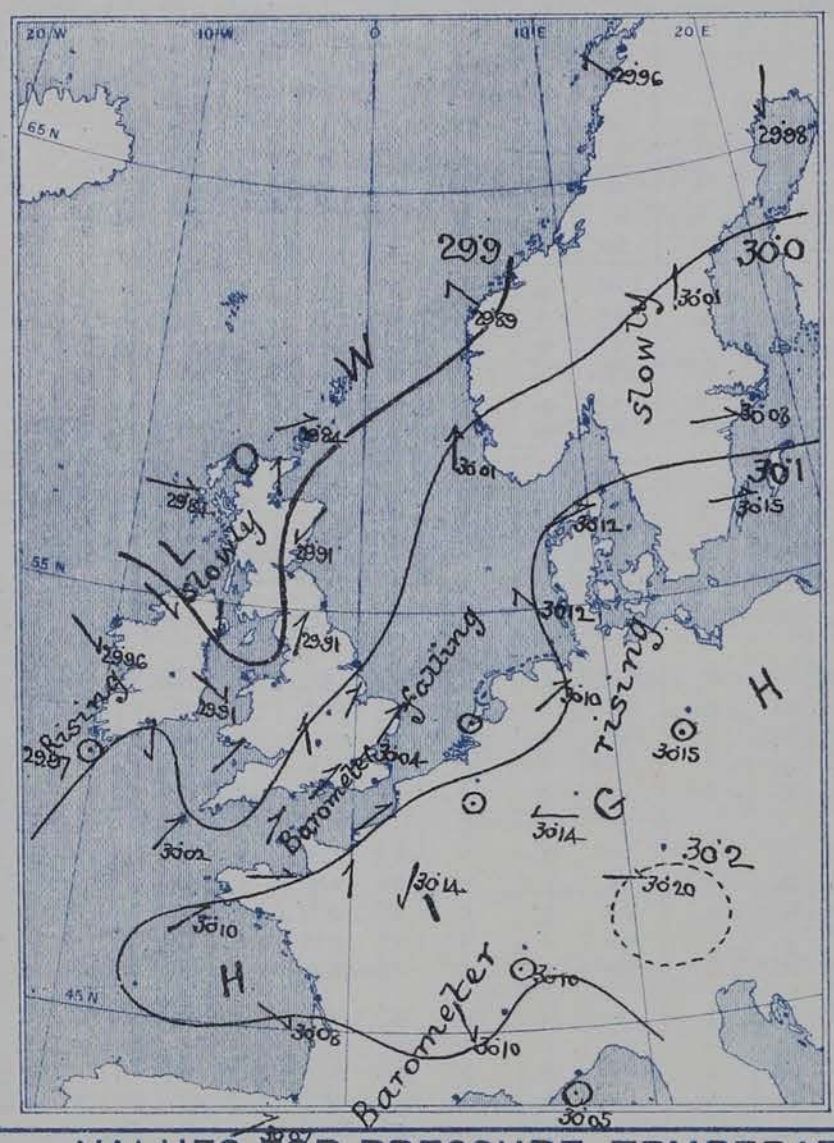
WEATHER CHARTS

FOR Monday, 10th July, 1899.

BAROMETER, WIND AND SEA.

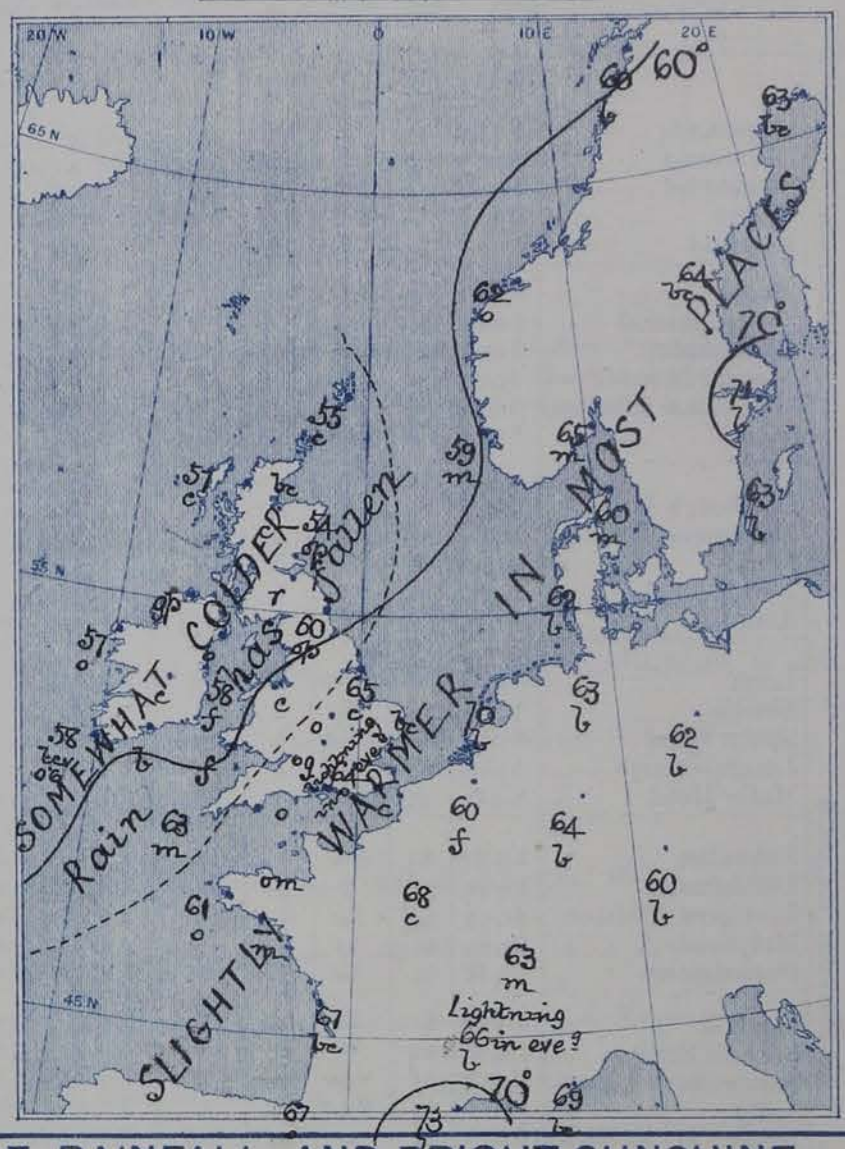
BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 : *Force 5 to 7* : } Calm ⊙
Force 8 to 10 : *Force 1 to 4* : }
SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR, 1871–95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 . 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	--	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 in: at Munich, and exceeding 30·1 in: all over Germany and the north of France.
Lowest, 29·9 in: and less to 30·0 in: over Scotland and Ireland, where there is a complex series of very shallow disturbances.
Gradients slight. Barometer has begun to rise in the west and north, but still falling slightly in the southeast.

TEMPERATURE

Highest, (1) 73° at Perpignan, 69° at Nice, 68° at Paris, 65° to 60° over the southern parts of England; (2) 71° at Stockholm, and above 60° over the greater part of Scandinavia.
Lowest, 54° at Aberdeen, 55° at Sumburgh Hd. Shields, and Donaghadee, 57° at Blemullet, 58° at Holyhead and Valencia.
The maxima recorded yesterday exceeded 75° in many parts of England, and touched 79° in London, Brussels, and at Paris, 81° at Rochefort, 87° at Perpignan.

WIND

SW' over the southeastern part of our Islands, variable from between SW. and NW. over Scotland and Ireland, still more variable over France and Germany. SW' to S' in the south of Scandinavia.

WEATHER

Clear and bright over Germany and several parts of France and the south of England; cloudy over our western and northern districts as a whole, with some rain in places.
Rain has fallen in all parts of Ireland, Wales, Scotland, and the north of England, the largest amount being 0·55 in: at Valencia.
Lightning was seen in London and at Lyons. Bright Sunshine recorded yesterday was considerable in the south of England, slight in Ireland and Scotland.

SEA

Slight or smooth except in the west and north.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The low pressure areas in the west may probably affect the weather at our southeastern stations shortly, where some showers are probable.

FORECASTS

For the 24 hours ending at NOON on 11TH JULY 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Very Variable and SW'ly winds; cloudy, close, rain at times.
1 SCOTLAND EAST	
2 ENGLAND N.E.	
3 ENGLAND EAST	
4 MIDLAND COUNTIES	SW'ly to NW'ly winds; dull, some rain and thunder locally.
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Varying airs; changeable from [illegible] to unsettled, some rain at times.
7 ENGLAND N.W.	
8 ENGLAND S.W.	
9 IRELAND NORTH	
10 IRELAND SOUTH	
WARNINGS	NONE ISSUED

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·04	61	59	S	2	0	1
Sumburgh Head							
Stornoway... ...	29·67	58	57	SW	5	d	5
Aberdeen							
Shields							
Malin Head ...	29·75	60	60	SW	6	r	4
Belmullet	29·83	58	57	NW	4	r	
Holyhead							*

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	30·18	70	63	WSW	3	bc	3
Portland Bill ...							
Dungeness ...	30·09	62	61	SW	3	0	2
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30·11	79	70	W.NW	2	bc	1
							*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 2ND TO THE 8TH JULY 1899.

At the commencement of this week barometric pressure was highest both over the Atlantic and southwestern Europe on the one hand, over Finland and northeastern Europe on the other. In the meantime a depression and some secondaries lay over North Germany, the Baltic, and the North Sea. Rather strong NW breezes were prevailing over the British Isles, W over the southern parts of France and Germany, SE to E over Russia and the Baltic. Over the British Islands the weather was beginning to improve, but rain in considerable quantity fell over France and Germany, and as the depression became more complex the fall spread to almost the whole of Central Europe and the Baltic. In the meantime the high pressure area over the Atlantic spread more completely over France and the British Isles, and in these regions except where local thunderstorms intervened the weather became fine and warm.

By the morning of Thursday the depression noticed over Germany had reached Russia and was breaking up, so that the weather in these regions began to improve as well as over the northern part of the Mediterranean, which had previously been affected by local disturbances of no great depth.

At the close of the week the weather was fair and quiet very generally, but there were some indications of a new disturbance approaching our western coasts from the Atlantic.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Tuesday 11th JULY, **1899.**

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda	30·03	59	W	2	b	30·10	+ ·12	66	56	+ 3	S	2	c	*	b	*	68	54	—
	Hernösand	30·00	62	2	0	m	30·05	+ ·04	63	60	— 1	S	2	f	*	m	*	72	52	—
	Stockholm	30·12	68	SW	2	b	30·17	+ ·09	71	62	0	W	4	b	*	b	*	79	57	—
	Wisby	30·18	63	S	4	b	30·23	+ ·08	66	61	+ 3	W	4	b	*	b	*	72	55	—
	Karlstad	30·10	68	SW	2	b	30·16	+ ·09	66	63	+ 2	SW	2	b	*	b	*	*	*	—
	Bodö	29·99	58	SW	4	o	30·04	+ ·08	56	55	— 4	2	0	o	0	o	*	63	52	—
	Christiansund ...	30·00	57	SW	1	o	29·97	+ ·08	62	59	0	2	0	o	1	o	*	66	55	0·04
	Skudesnaes ...	30·03	60	S	2	o	30·01	·00	62	59	+ 3	S	6	m	4	r,o	*	62	52	*
	Færder (X'iania Fjord)	30·09	66	S	4	m	30·14	+ ·09	69	65	+ 4	SSW	2	bc	1	m	*	69	64	—
	The Scaw (Skagen)	30·13	68	SW	1	m	30·15	+ ·03	67	65	+ 7	SW	2	m	0	m	*	82	57	—
	Fanö	30·12	64	2	0	b	30·12	·00	68	64	+ 6	SSE	4	b	*	b	*	77	62	—
BRITISH ISLANDS.	Sumburgh Head ...	29·91	57	SW	1	c	29·89	+ ·05	56	53	+ 1	NE	1	o	3	c	*	60	47	—
	Stornoway	29·88	60	WSW	4	c	29·86	+ ·02	57	55	0	S	2	o	2	o,c	6·6	62	48	—
	Wick	29·91	58	S	1	bc	29·89	·00	56	54	— 4	S	1	o	1	bc	*	63	51	—
	Nairn	29·88	63	E	1	c	29·85	— ·04	57	55	0	2	0	r	0	c	*	67	54	0·02
	Aberdeen	29·92	53	ENE	3	og	29·87	— ·04	54	54	0	ENE	1	ofd	2	og	0·0	56	51	0·01
	Leith	29·90	58	WSW	2	o	29·87	— ·03	57	54	+ 2	ENE	1	om	*	o	*	60	53	—
	Shields	29·90	65	2	0	cmu	29·88	— ·03	56	55	— 4	N	1	o	2	om,r	*	69	54	0·01
	Spurn Head ...	29·97	68	SSW	4	c	29·93	— ·06	64	62	— 1	S	4	c	3	c	*	71	61	—
	Loughborough ...	29·98	71	SSW	3	bc	29·93	— ·09	65	62	+ 2	SSW	3	o	*	o.c.bc.o	*	72	63	—
	Malin Head ...	29·93	58	N	1	c	29·87	— ·04	53	52	— 3	E	4	og	3	b,c,r	*	60	51	0·08
	Belmullet	29·95	59	WSW	1	o	29·89	— ·07	58	55	+ 1	NNE	3	c	*	o	*	61	52	—
	Donaghadee ...	29·95	58	E	2	cg	29·86	— ·06	53	52	— 3	NNE	4	od	3	cg	*	59	51	0·10
	Liverpool (Bidston).	29·95	58	W	1	o	29·85	— ·09	63	62	0	ESE	2	r	2	fp,o	*	66	56	0·34
	Holyhead	29·96	58	NW	1	c	29·80	— ·11	61	60	+ 3	S	3	dm	2	opd.c	*	61	53	0·53
	Parsonstown ...	29·95	60	NE	1	o	? 29·82	— ·16	56	55	— 1	SW	1	or	*	c,o	3·2	63	53	0·61
	Valencia	29·93	56	NW	1	rm	29·83	— ·14	55	54	0	N	4	og	4	r,rm	3·4	61	56	0·45
	Roche's Point ...	29·94	59	WSW	2	o	29·77	— ·25	57	56	— 3	NNW.	5	r	4	o.r	*	63	55	0·75
	Pembroke (St. Ann's Hd.)	29·98	60	W	1	bc	29·86	— ·09	60	59	0	SSW	4	r	5	bc.r	3·1	61	56	1·27
	Scilly	29·97	64	S	3	m	29·82	— ·20	64	64	+ 1	S	4	fr	2	om.f	0·5	70	62	0·74
	Jersey (St. Aubin's)	30·07	69	W	2	cg	29·95	— ·15	70	65	+ 5	NW	1	bm	1	cg	*	72	55	—
	Portland Bill ...	30·06	61	SW	2	o	29·97	— ·11	60	60	0	WNW	1	f	2	d.om	*	63	55	—
	Dungeness	30·06	63	SW	1	c	29·97	— ·12	65	62	+ 4	ESE	2	c	1	c	*	65	59	—
	London (Brixton) ...	30·04	72	SW	2	bc	29·98	— ·10	68	63	+ 4	SW	1	b	*	c,or	0·2	75	60	0·10
	Oxford	30·00	67	S	2	o	29·95	— ·10	64	61	+ 2	SSE	2	o	*	o,p	*	70	61	—
	Yarmouth	30·02	68	SSW	3	c	29·98	— ·06	67	63	+ 2	SSE	2	b	2	bc,c	*	70	61	—
GERMANY.	Cuxhaven	30·09	68	2	0	b	30·11	+ ·01	68	63	+ 5	E	1	b	*	b	*	72	61	—
	Berlin	30·11	70	2	0	b	30·15	·00	69	62	+ 5	SE	1	b	*	b	*	79	61	—
	Wiesbaden	*	*	*	*	*	30·11	— ·03	64	56	0	SE	2	b	*	*	*	77	55	—
	Munich	30·17	64	2	0	bc	30·17	— ·03	64	60	+ 4	E	3	b	*	bc	*	72	52	—
FRANCE & NETHERLANDS.	The Helder ...	30·06	63	WSW	1	b	30·05	— ·03	70	62	0	2	0	bc	0	b	*	73	55	—
	Brussels	*	*	*	*	*	30·05	— ·08	72	66	+ 12	2	0	c	*	bc	*	77	58	—
	C. Gris Nez ...	30·05	65	WSW	1	c	30·01	— ·10	68	63	+ 6	S	1	c	1	c	*	70	62	—
	Paris	30·09	75	NNE	1	bc	30·04	— ·10	68	61	0	2	0	c	*	bc	*	81	59	—
	Brest	30·08	61	SSW	2	o	29·93	— ·17	58	57	— 3	S	3	m	2	o	*	70	54	—
	Lorient	30·07	66	W	2	b	29·96	— ·16	57	57	— 4	ENE	1	m	2	b	*	79	57	—
	Rochefort	30·06	71	NW	3	c	29·96	— ·12	68	64	+ 1	ENE	2	b	*	bc,c	*	77	63	—
	Belfort	30·04	72	N	2	c	30·04	— ·06	63	59	0	ENE	4	m	*	c	*	78	54	—
	Lyons	29·96	73	?	1	bc	30·04	— ·06	66	59	0	SE	1	b	*	bc	*	80	59	—
	Nice	30·03	70	ENE	4	c	30·06	+ ·01	69	62	0	SW	1	bc	0	c	*	77	63	—
	Perpignan	29·97	77	E	1	b	30·02	— ·05	72	?	— 1	E	1	b	*	b	*	88	60	—
	Biarritz	30·01	73	2	0	bc	29·90	— ·17	68	66	+ 1	ESE	2	b	2	bc	*	75	64	—
SPAN. PEN.	Corunna ... ... / Lisbon	30·08	63	N	4	b	30·10	·00	63	59	— 1	N	4	o	*	b	* / *	72	61	—
	Azores (P. Delgada)	30·29	70	SW	2	b	30·22	— ·11	70	68	0	N	3	o	2	b	*	73	68	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

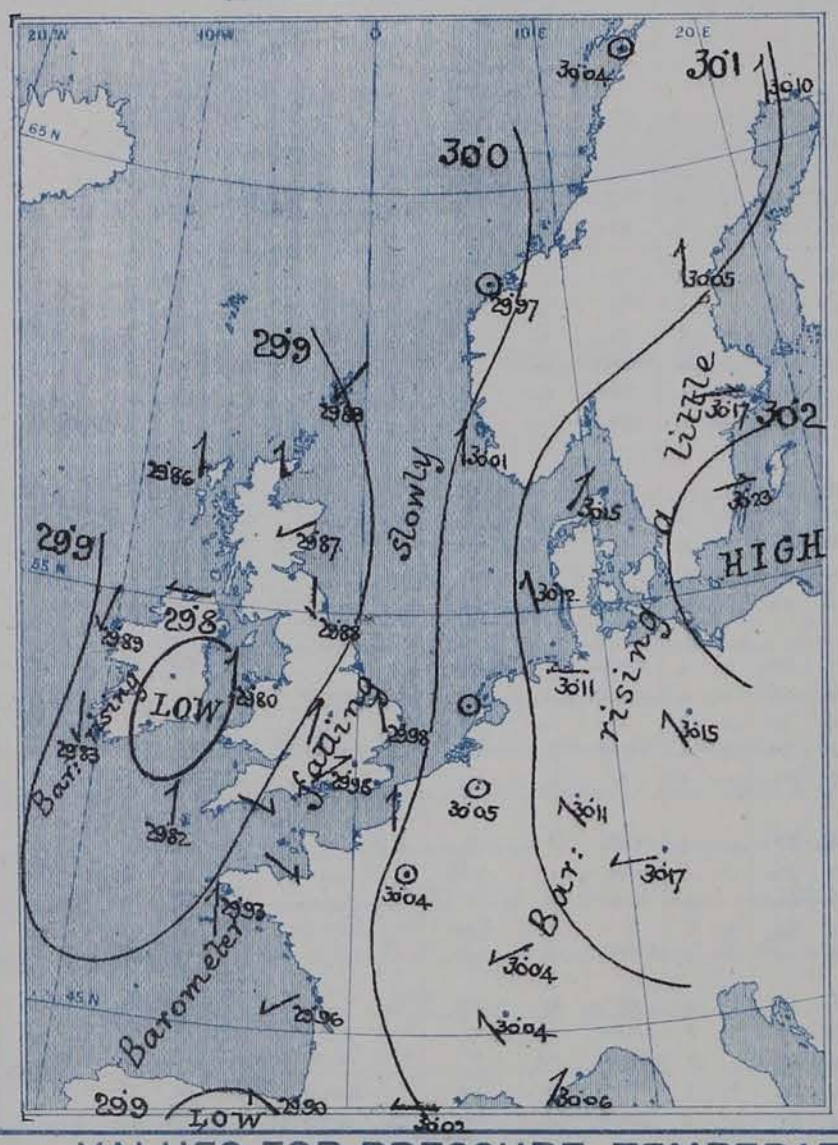
Bright Sunshine yesterday Southport 0·6 *hrs.*

WEATHER CHARTS

FOR Tuesday, 11th July, 1899.

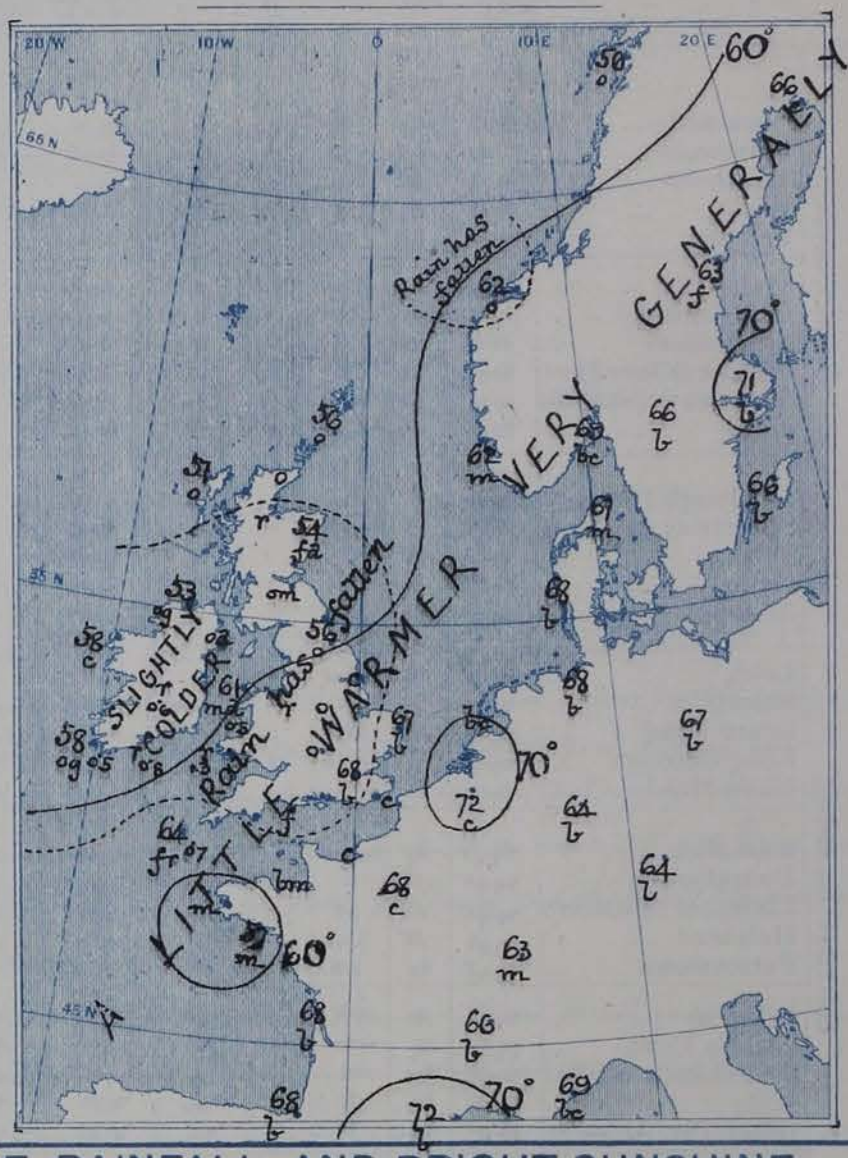
BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.
Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ⟶ ; *Force 1 to 4* ⟶ : }
SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 . 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	--	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 inches and upwards over the Baltic, 30.1 inches and upwards in an anticyclone lying over nearly the whole of Sweden, Denmark and Germany, and also in another system off the Portuguese coasts.

Lowest 29.8 inches and less in a well marked but shallow depression lying over the eastern parts of Ireland.

Gradients slight. Barometer falling in most parts of our Islands and France, but rising again at Valencia (Ireland).

TEMPERATURE

Highest 72° at Brussels and Perpignan, 71° at Stockholm, 70° at Jersey and the Helder and 69° at Nice.

Lowest 53° at Malin Head and Donaghadee, 54° at Aberdeen and 56° at Bodö, Hamburgh 56°, Wick, Shields and Portmadoc.

During yesterday the thermometer rose to 70° and upwards at most of the English stations and to 75° in London. At Aberdeen the thermometer did not exceed 56°.

WIND

Light to moderate from the southward over the greater part of England and also in the north of Scotland, light from the Eastward in the east of Scotland, moderate from the northward in Ireland.

Light from the Eastward over France and Germany, southerly at most of the Scandinavian and Danish stations, but westerly in the south of Sweden.

WEATHER

Dull and unsettled in all the more western and northern parts of the United Kingdom, with rain in many places; foggy in the western parts of the Channel.

Fine in the east and southeast of England, as well as at most of the Continental stations, but dull in the west.

Since yesterday morning heavy rain has fallen at our western stations, the largest amount reported being 1.3 inches at Pembroke, 0.8 inch at Roche's Point (of Norway) and 0.7 inch at Scilly.

SEA

Slight or smooth generally, but moderate off the south of Ireland, and rather rough at Pembroke.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the west seems likely to spread slowly eastwards, and rainy, unsettled weather is therefore probable over England, with thunder in places.

FORECASTS

For the 24 hours ending at NOON on 12TH JULY. 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Light breezes, chiefly E.ly; dull, rain at times.	6 SCOTLAND WEST	Same as No. 0 and 1.
1 SCOTLAND EAST		7 ENGLAND N.W.	S.ly winds, shifting later to NW. or N, rain at times, thunder locally.
2 ENGLAND N.E.	S.ly and SE.ly winds, light; dull, some rain, thunder locally.	8 ENGLAND S.W.	
3 ENGLAND EAST	Same as No. 5.	9 IRELAND NORTH	N.ly and NW.ly winds, moderate, rainy at first, improving later.
4 MIDLAND COUNTIES	Same as No. 2.	10 IRELAND SOUTH	
5 ENGLAND SOUTH	Light breezes, chiefly S.ly; fair at first, rainy later, probably thunder.	WARNINGS	None issued.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·04	59	58	S	6	r	4	Valencia	29·97	59	55	W	1	r	4
Sumburgh Head	29·91	57	55	WSW	2	c	4	Scilly	30·02	68	63	S	2	om	1
Stornoway... ...	29·86	59	55	WSW	4	o	4	Jersey	30·11	69	63	WNW	3	c	3
Aberdeen	29·93	54	52	NE	2	og	2	Portland Bill ...	30·08	61	60	SW	3	oa	3
Shields	29·90	69	65	SSW	2	om	2	Dungeness ...	30·09	64	61	SSW	2	c	1
Malin Head ...	29·93	60	57	NW	2	b	1	London (Westminster)	30·04	73	65	SW	3	o	×
Belmullet	29·96	59	54	WSW	2	o	1	Yarmouth ...	30·02	68	64	SSE	3	bc	3
Holyhead	29·96	59	56	NNW	2	opa	1	Rochefort ...	30·08	77	70	NNW	3	bc	×

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy and unsettled over the greater part of our Islands, with showers at several of our northern stations, and fog over the St. George's Channel. Fine in the south of Ireland and also over the greater part of the Continent, but rain falling in the Gulf of Finland. Rain falling later at many of our western stations, – heavily in places, and local showers in the east and southeast of England.

Temperature fallen in the west and north of our Islands, changed irregularly elsewhere. Morning readings highest:– 77° at Barcelona, Athens and Patras, and 76° at Brindisi and Constantinople; above 70° in many parts of southern Europe, as well as at some stations over the Baltic and Gulf of Finland. Lowest (1) 51° at Aberdeen and 55° at Sumburgh Head and Leith. (2) 57° at Prague and 58° at Breslau. Rising during day to between 70° at 75° at most of the English stations; exceeding 80° in several parts of France and reaching 88° at Perpignan.

Wind light from the southwestward in most parts of Great Britain, but Northerly or Northwesterly in Ireland. Light and variable over France, and the greater part of Central and Southern Europe, but Northerly (NE to NW) over the Spanish Peninsula. Southerly to Westerly over Denmark and the south of Scandinavia; Southeasterly in the west of Norway. Subsequently becoming very variable in the west and north of our Islands.

Barometer Highest 30.1 inches to 30.2 inches in a broad band stretching from northeast to southwest across the whole of Europe. Lowest 29.9 inches and less in a shallow depression lying over and to the northward of Scotland, and also in another disturbance over the Black Sea. Small secondary systems appearing later over various parts of the United Kingdom, and barometer falling a little in most places.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy), o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 12th July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda	30·10	65	Z	0	c	30·09	-.01	65	63	-1	S	2	b	*	c	*	72	54	-
	Hernösand	30·06	68	Z	0	b	30·09	+.04	72	64	+9	S	2	b	*	b	*	77	52	-
	Stockholm	30·17	69	SW	2	b	30·21	+.04	77	67	+6	Z	0	b	*	b	*	81	61	-
	Wisby	30·23	64	SSW	4	b	30·25	+.02	67	62	+1	W	4	b	*	b	*	70	57	-
	Karlstad	30·15	72	WSW	2	b	30·21	+.05	69	62	+3	SW	2	b	*	b	*	*	*	—
	Bodö	30·01	59	Z	0	c	30·04	·00	55	54	-1	W	4	r	2	c	*	63	52	0·04
	Christiansund ...	29·96	63	Z	0	o	30·03	+.06	62	59	0	Z	0	c	1	o	*	64	55	0·04
	Skudesnaes ...	30·04	63	SSE	4	o	30·07	+.06	69	62	+7	ESE	2	bc	3	o	*	?	59	*
	Færder (X'iania Fjord)	30·14	68	SSE	2	b	30·19	+.05	71	66	+2	SSE	2	b	1	b	*	71	66	-
	The Scaw (Skagen)	30·17	68	W	1	b	30·18	+.03	68	67	+1	SSE	1	b	0	b	*	81	64	-
	Fanö	30·10	71	SE	3	b	30·08	-.04	68	65	0	E	3	b	*	b	*	82	64	-
BRITISH ISLANDS	Sumburgh Head ...	29·90	55	NE	1	o	29·90	+.01	55	55	-1	NE	2	o	3	o	*	58	52	0·06
	Stornoway	29·89	58	S	1	o	29·91	+.05	57	56	0	ESE	3	r	3	o	1·5	62	50	0·02
	Wick	29·89	56	S	1	o	29·92	+.03	53	52	-3	N	1	f	1	or	*	60	50	0·25
	Nairn	29·89	57	E	1	r	29·90	+.05	55	54	-2	E	1	r	1	r	*	59	52	0·45
	Aberdeen	29·88	55	SSE	2	ogr	29·87	·00	58	56	+4	NNE	2	og	2	og,r	0·0	59	53	0·46
	Leith	29·83	57	ENE	1	r	29·83	-.04	55	55	-2	ENE	3	r	*	r	*	60	53	0·19
	Shields	29·80	62	ENE	1	cm	29·80	-.08	56	56	0	N	2	f	2	p,hr,f	*	64	53	0·04
	Spurn Head ...	29·83	65	SE	5	ct	29·80	-.13	66	63	+2	E	3	b	3	p,c,t	*	68	61	0·02
	Loughborough ...	29·81	83	SSE	3	b	29·76	-.17	72	66	+7	SE	2	c	*	c,bc,cm	*	84	57	-
	Malin Head ...	29·86	56	N	4	o	29·85	-.02	52	52	-1	NNW	5	r	4	o	*	58	52	0·11
	Belmullet	29·93	58	N	4	o	29·96	+.07	57	53	-1	NNW	3	bc	*	o,c	*	62	47	-
	Donaghadee .	29·82	53	N	3	r	29·79	-.07	53	53	0	N	4	rq	5	r	*	55	51	1·09
	Liverpool (Bidston).	29·81	67	NW	1	c	29·76	-.09	61	60	-2	ESE	1	r	1	cp	*	70	59	0·20
	Holyhead	29·80	60	SW	2	af	29·77	-.03	55	55	-6	NNW	4	r	3	rf,af	*	62	54	1·13
	Parsonstown ...	29·84	56	NW	1	r	29·90	+.08	55	53	-1	NW	1	o	*	or	0·0	57	51	0·38
	Valencia	29·91	59	NNW	5	cq	29·98	+.15	59	54	+1	NNW	4	bc	4	cq	1·6	61	56	0·05
	Roche's Point ...	29·81	59	N	5	o	29·91	+.14	55	55	-2	N	5	r	4	o	*	60	52	0·62
	Pembroke (St. Ann's Hd.)	29·84	60	SSW	3	r	29·80	-.06	56	55	-4	NE	4	o	4	or	0·0	61	55	0·42
	Scilly	29·76	60	S	2	r	29·78	-.04	57	56	-1	NW	1	op	4	or	0·0	67	55	1·02
	Jersey (St. Aubin's)	29·82	72	NNW	2	bc	29·83	-.12	62	59	-8	WSW	5	c	4	b,hlr	*	80	60	0·05
	Portland Bill ...	29·87	59	N	2	f	29·79	-.18	61	60	+1	WSW	3	o	2	f	*	66	54	-
	Dungeness	29·87	68	E	3	bc	29·78	-.19	67	67	+2	SSE	1	c	0	bc	*	74	62	-
	London (Brixton) ...	29·87	80	S	2	b	29·77	-.21	78	67	+10	SE	2	bc	*	bc,bl	11·1	85	65	-
	Oxford	29·84	73	SSE	2	b	29·75	-.20	70	65	+6	S	2	og	*	b,lp	*	83	62	0·07
	Yarmouth	29·91	66	SE	4	bc	29·82	-.16	65	62	-2	SE	2	bc	3	bc	*	68	62	0·01
GERMANY.	Cuxhaven	30·04	73	E	2	b	30·03	-.08	68	64	0	E	3	b	*	b	*	77	63	-
	Berlin	30·08	75	ESE	1	b	30·11	-.04	69	62	+2	ENE	1	b	*	b	*	82	63	-
	Wiesbaden	*	*	*	*	*	29·99	-.12	71	63	+7	E	3	b	*	*	*	79	59	-
	Munich	30·08	66	E	3	bc	30·07	-.10	66	60	+2	E	1	b	*	bc	*	75	62	-
FRANCE & NETHERLANDS.	The Helder ...	29·96	70	E	1	b	29·91	-.14	72	67	+2	ESE	1	b	1	b	*	77	68	-
	Brussels	*	*	*	*	*	29·87	-.18	74	66	+2	SE	3	b	*	c	*	84	64	—
	C. Gris Nez ...	29·92	81	SE	1	c	29·83	-.18	74	65	+6	SSE	1	bc	1	c	*	86	68	—
	Paris	29·92	79	E	2	o	29·84	-.20	68	63	0	SSE	2	bc	*	o	*	85	65	-
	Brest																*			
	Lorient	29·84	66	WNW	3	c	29·91	-.05	60	57	+3	WNW	4	c	4	c	*	79	57	0·04
	Rochefort	29·82	74	W	3	c	29·92	-.04	64	62	-4	NW	4	o	*	b,hlr	*	90	63	0·04
	Belfort														*		*			
	Lyons	29·92	79	SE	1	b	29·95	-.09	70	61	+4	S	1	bc	*	l,b	*	84	61	-
	Nice																*			
	Perpignan														*		*			
	Biarritz	29·89	70	W	6	o	29·90	·00	64	63	-4	W	4	hlr	3	o	*	86	63	0·12
SPAN. PEN.	Corunna																*			
	Lisbon	30·08	67	WNW	3	o	30·10	·00	64	55	+1	N	6	b	*	o	*	75	61	-
	Azores (P. Delgada)	30·34	68	ENE	3	b	30·36	+.14	70	63	0	NE	4	bc	3	b	*	73	64	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0·1 *hrs.*

WEATHER CHARTS

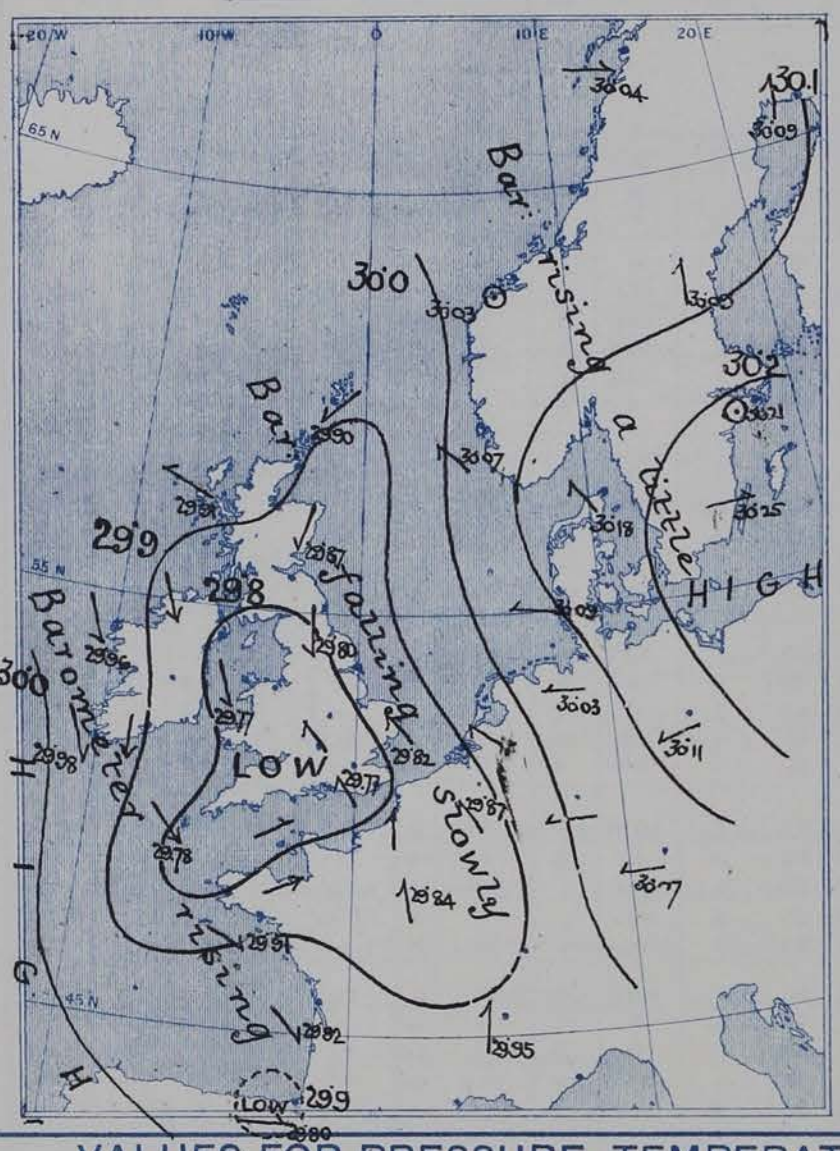
FOR Wednesday, 12th July, 1899.

BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

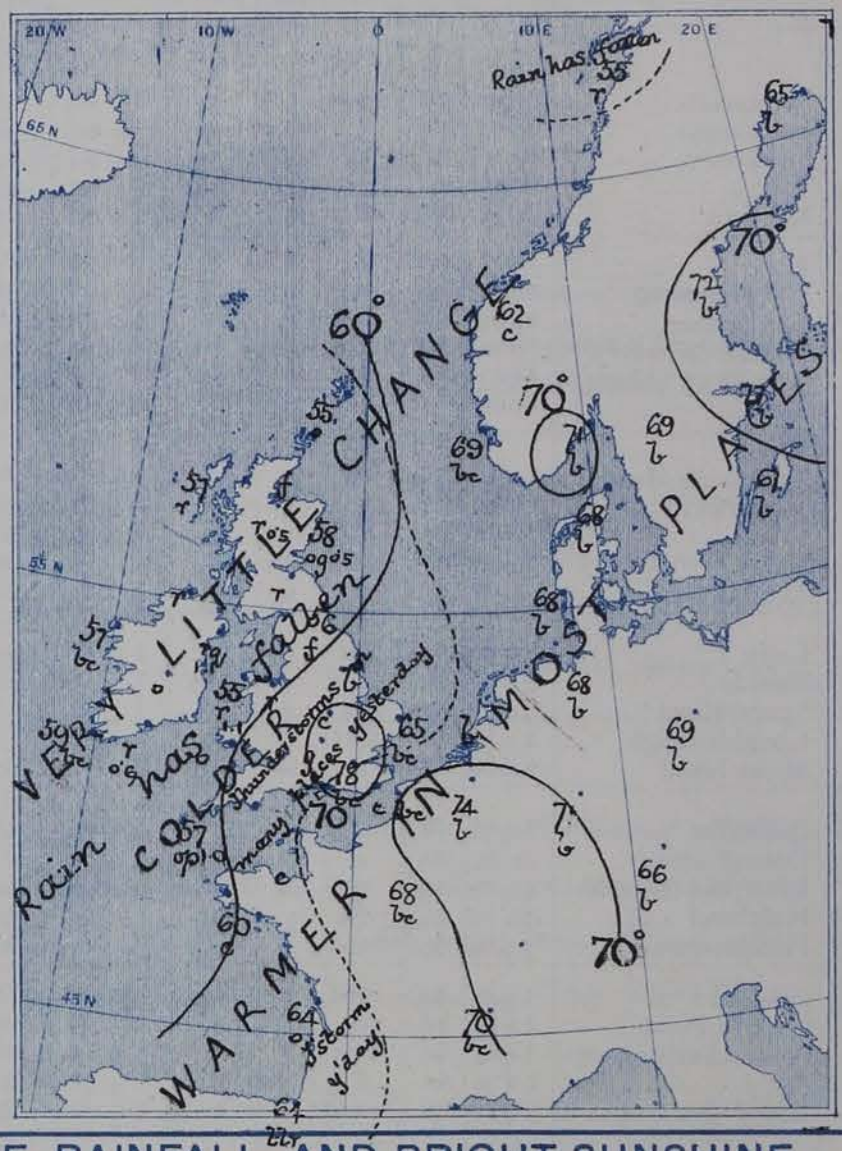
Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ :

SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 . 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	--	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 in: and upwards, in an anticyclone lying over the Baltic and the south of Sweden; 30·1 in: and upwards in another system off the Portuguese coasts.
Lowest, 29·8 in: and less, in a shallow depression lying over the whole of England and Wales.
Gradient slight generally, but moderate over our western coasts
Barometer falling slightly over England and the Netherlands, but rising elsewhere.

TEMPERATURE

Highest, (1) 78° in London, and 74° at Cape Gris Nez and Brussels; (2) 77° at Stockholm and 72° at Hernösand.
Lowest, 52° at Malin Hd, 53° at Wick and Donaghadee, and 55° at Portn, Sumburgh Hd, Nairn, Leith, Holyhead, Aberystwyth, and Rocket Point.
During yesterday the thermometer rose to 80° and upwards over the Central and southern parts of England, and to 85° in London. At several of our western and northern stations it failed to reach 60°.

WIND

Light from the E. or SE. over the Eastern and central parts of England, and also over the Netherlands, Central France, Germany, and the Eastern shores of the North Sea.
Light from the NE. in Scotland, moderate to fresh from the N. or NW. on our western coasts; W. or NW. in the west of France.

WEATHER

Dull over the western and northern parts of our Islands generally with rain in many places, but fine on the west coast of Ireland.
Fine in the east and southeast of England, as well as at most of the Continental stations, but cloudy in the west of France, with a thunderstorm at Biarritz.
Heavy rain has fallen at many of our western and northern stations, the largest amounts reported being 1·1 in: at Donaghadee and Holyhead, 1·0 in: at Scilly, and 0·6 in: at Rocket Point. Thunderstorms have occurred at Shields, Jersey, and Rochefort, and lightning has been seen in London, and at Oxford and Lyons.

SEA

Rather rough at Donaghadee, and moderate on our west and southwest coasts generally, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday over our western coasts has spread eastwards over the whole of England; for the present it seems likely to remain almost stationary. Rain and thunder are probable in most parts of the country.

FORECASTS

For the 24 hours ending at NOON on 13TH JULY, 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NE. and N. winds, light; cool, unsettled, rain at times.
1 SCOTLAND EAST	
2 ENGLAND N.E.	E. and NE. winds, light; unsettled, some rain, thunder locally.
3 ENGLAND EAST	SE. to Variable breezes; unsettled with rain and thunder in places. Becoming cooler.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Same as Nos 0 and 1.
7 ENGLAND N.W.	N. winds, moderate or fresh; cool, unsettled, rain at times.
8 ENGLAND S.W.	
9 IRELAND NORTH	N. and NW. winds, moderate; changeable, some showers.
10 IRELAND SOUTH	
WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·00	65	61	S	6	0	4
Sumburgh Head	29·89	57	55	S	2	0	2
Stornoway... ...	29·87	60	57	SSW	3	0	3
Aberdeen	29·87	58	56	SSE	2	0	2
Shields	29·85	61	60	2	0	0pm	2
Malin Head ...	29·86	57	54	NE	4	0	2
Belmullet	29·91	62	56	NNE	3	0	*
Holyhead	29·81	62	61	SW	1	r f	1
Valencia	29·88	60	55	NNW	5	c q	5
Scilly	29·79	61	61	S	3	r	2
Jersey	29·90	69	65	SE	2	b	2
Portland Bill ...	29·93	62	60	SSW	2	f	2
Dungeness ...	29·92	70	65	SSE	3	c	2
London (Westminster)	29·89	82	70	SSE	3	c	*
Yarmouth ...	29·93	66	63	SE	4	bc	3
Rochefort ...	29·91	90	75	NW	1	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning dull in all the more western and northern parts of the United Kingdom, with rain in many places; foggy in the western parts of the English Channel. Fine in east and southeast of England, as well as at most of the Continental stations, but dull in the west of Norway, as well as in Poland, Eastern Austria and Portugal; rain falling at Hermanstadt. Heavy rain falling later at many of our more western and northern stations; thunderstorms or lightning only occurring in many parts of England and France.

Temperature rises over England and the western and central parts of the Continent; changed rather irregularly elsewhere. Morning readings highest 80° at Barcelona and Trieste, and 78° at Athens and Constantinople, above 70° at the Mediterranean and Adriatic stations generally, as well as over the Netherlands and at Stockholm. Lowest 53° at Malin Hd. and Donaghadee, 54° at Aberdeen, and 56° at Bodö, Sumburgh Head, West Shields and Paramatta. Remaining below 60° all day at several of the western and northern stations, but rising to between 80° and 85° over Central and southern England, and exceeding 85° in many parts of France.

Wind light to moderate from the S^w over England and also over the north of Scotland and the greater part of Scandinavia and Denmark; light from the E^w in the east of Scotland, moderate from N. in Ireland. Calm in the Netherlands, E^ly over France and South Germany; W^ly to N^ly over the Spanish Peninsula; Variable over Italy and Austria; N^ly (NW to NE) over the greater part of Russia. No important change over Western Europe during day.

Barometer highest 30·1 ins: to 30·3 ins: in an anticyclone extending from Russia over Denmark, Germany and northern Italy; 30·1 ins: and upwards in another system off the Portuguese coast. Lowest 29·8 ins: and less, in a shallow, but well marked, depression over the St George's Channel and the east of Ireland. Depression subsequently moving slowly southeastwards, but new disturbance forming over the east of England.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Thursday, 13th July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb.	Wet Bulb.	Change since Yesterday.	Wind. Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda	30·05	65	NW	0	b	30·11	+·02	75	64	+ 10	NW	0	b	*	b	*	75	64	–
	Hernösand	30·06	69	SW	1	b	30·16	+·07	73	64	+ 1	NE	4	b	*	b	*	82	55	–
	Stockholm	30·20	71	SSW	2	b	30·23	+·02	76	64	– 1	SSW	2	b	*	b	*	84	63	–
	Wisby	30·23	66	WSW	4	b	30·25	·00	67	60	0	SSE	2	b	*	b	*	72	57	–
	Karlstad	30·14	76	NW	0	b	30·17	–·04	71	65	+ 2	SE	2	b	*	b	*	*	*	–
	Bodö	30·06	58	SSW	2	0	30·14	+·10	54	53	– 1	NNE	2	r	1	0	*	61	52	0·35
	Christiansund ...	30·06	66	NW	2	b	30·11	+·08	71	62	+ 9	SE	2	b	1	b	*	73	57	–
	Skudesnaes ...	30·04	68	E	4	b	30·04	–·03	72	64	+ 3	ESE	4	b	2	bc.b	*	72	63	*
	Færder (X'iania Fjord)	30·14	71	SSE	1	b	30·15	–·04	69	65	– 2	N	2	b	1	b	*	73	66	–
	The Scaw (Skagen)	30·14	72	SE	1	b	30·15	–·03	70	66	+ 2	SE	1	b	0	b	*	90	64	–
	Fanö	30·05	71	ESE	6	b	30·02	–·06	68	64	0	E	4	b	*	b	*	86	64	–
BRITISH ISLANDS	Sumburgh Head ...	29·85	57	NE	4	f	29·79	–·11	60	59	+ 5	SE	2	c	4	o.t.f	*	60	54	0·02
	Stornoway	29·79	55	ENE	4	o	29·72	–·19	57	55	0	WSW	5	o	5	r.o	0·0	57	52	0·15
	Wick	29·79	53	NW	0	f	29·77	–·15	57	56	+ 4	NW	0	o	0	tlr.f	*	61	50	0·35
	Nairn	29·78	57	E	3	r	29·77	–·13	60	58	+ 5	WSW	1	b	1	r	*	60	52	0·35
	Aberdeen	29·80	58	ENE	2	ogp	29·80	–·07	59	57	+ 1	SW	2	ogp	1	p.t.gp	1·0	63	55	0·01
	Leith	29·74	56	E	1	o	29·85	+·02	58	55	+ 3	SW	2	bc	*	tlr.o	*	58	53	0·71
	Shields	29·75	63	NW	0	p	29·86	+·06	56	54	0	W	2	p	2	tlr.or	*	66	53	0·17
	Spurn Head ...	29·75	64	SE	4	c	29·88	+·08	60	59	– 6	WNW	4	o	3	c.tlp	*	68	59	0·03
	Loughborough ...	29·77	73	S	1	c	29·94	+·18	60	56	– 12	WNW	3	c	*	ct.o.c	*	79	56	–
	Malin Head ...	29·80	55	NW	5	op	29·81	–·04	56	54	+ 4	S	4	b	2	o.p	*	56	50	–
	Belmullet	29·92	60	WNW	1	b	29·78	–·18	54	53	– 3	SSE	4	om	*	b	*	60	52	0·04
	Donaghadee ..	29·81	58	NW	3	o	29·89	–·10	58	55	+ 5	S	3	b	2	o	*	59	49	0·08
	Liverpool (Bidston).	29·82	58	W	4	o	29·95	+·19	58	55	– 3	WSW	2	b	2	r.c	*	63	53	0·04
	Holyhead	29·85	58	NW	2	c	29·93	+·16	60	56	+ 5	SW	2	b	1	om.c	*	60	50	0·02
	Parsonstown ...	29·89	60	NW	1	o	29·89	–·01	59	53	+ 4	SE	1	c	*	o	0·7	61	46	–
	Valencia	29·96	60	W	2	bcv	29·81	–·17	59	58	0	SSE	4	rm	4	cv.bcv	11·3	61	57	0·16
	Roche's Point ...	29·91	62	NNW	4	bc	29·91	·00	58	56	+ 3	SSW	5	o	4	bc	*	64	50	0·01
	Pembroke (St. Ann's Hd.)	29·89	59	N	3	c	29·98	+·18	59	56	+ 3	W	3	c	3	c	4·8	62	55	–
	Scilly	29·96	59	NNW	6	c	29·99	+·21	63	59	+ 6	SSW	3	c	2	o m p.c	1·5	63	55	–
	Jersey (St. Aubin's)	29·89	62	WSW	5	o.g	30·05	+·22	61	58	– 1	W	4	o	3	bc.ogl	*	65	59	–
	Portland Bill ...	29·83	61	SSW	3	c	30·01	+·22	59	56	– 2	NW	3	b	3	bc.c	*	66	53	–
	Dungeness	29·82	64	WSW	5	c	29·94	+·16	61	60	– 6	SW	3	c	3	c	*	69	59	–
	London (Brixton) ...	29·82	68	WSW	3	bc	29·96	+·19	61	57	– 17	NW	3	og	*	p.c.o	5·0	79	59	–
	Oxford	29·83	63	S	2	c	29·95	+·20	61	56	– 9	W	2	c	*	p.c	*	76	58	–
	Yarmouth	29·78	69	SSE	2	b	29·90	+·08	63	59	– 2	SW	2	c	2	b	*	70	58	–
GERMANY.	Cuxhaven	29·96	73	E	2	b	29·97	–·06	68	62	0	ESE	3	b	*	b	*	77	63	–
	Berlin	30·00	77	ENE	2	b	30·04	–·07	69	60	0	E	2	b	*	b	*	86	63	–
	Wiesbaden	*	*	*	*	*	29·96	–·03	71	65	0	SE	3	b	*	*	*	82	63	–
	Munich	29·99	68	SE	2	b	30·06	–·01	69	62	+ 1	W	5	c	*	b	*	79	55	–
FRANCE & NETHERLANDS.	The Helder ...	29·82	78	ESE	1	b	29·91	·00	67	64	– 5	SSW	1	b	1	b	*	86	61	–
	Brussels	*	*	*	*	*	29·98	+·11	62	59	– 12	WNW	2	o	*	r	*	85	57	0·32
	C. Gris Nez ...	29·90	60	W	3	c	29·95	+·12	61	59	– 13	SW	3	o	3	c	*	81	57	–
	Paris	29·88	70	N	2	r	30·04	+·20	59	59	– 9	SW	1	o	*	r	*	83	57	0·35
	Brest	29·97	61	WNW	3	c	30·05	+·17	58	55	– 2	W	2	bc	2	c	*	64	50	–
	Lorient	29·96	63	WNW	5	c	30·10	+·19	59	55	– 1	NW	2	bc	4	c	*	79	55	–
	Rochefort	29·96	64	NW	4	o	30·11	+·19	61	57	– 3	NNW	4	bc	*	r.o	*	75	59	0·12
	Belfort	29·84	77	S	0	bc	29·99	+·06	63	61	– 6	W	2	m	*	bc	*	82	59	0·43
	Lyons	29·88	78	S	2	c	30·02	+·07	65	61	– 5	N	1	b	*	c.l	*	84	60	–
	Nice	29·95	74	W	1	b	29·93	–·09	73	62	+ 4	NNE	1	bc	1	b	*	77	61	–
	Perpignan	29·96	70	NW	3	o	30·00	+·05	63	57	– 7	W	4	o	*	o	*	83	62	–
	Biarritz	30·04	65	NW	4	r	30·09	+·19	64	56	0	N	4	o	4	r	*	66	59	0·87
SPAN. PEN.	Corunna																*			
	Lisbon	30·13	61	NNE	6	b	30·17	+·07	65	56	+ 1	N	5	b	*	b	*	70	59	–
	Azores (P. Delgada)	30·37	66	NE	3	b	30·32	–·04	69	64	– 1	NNE	1	c	2	b	*	75	63	–

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0·3 *hrs.*

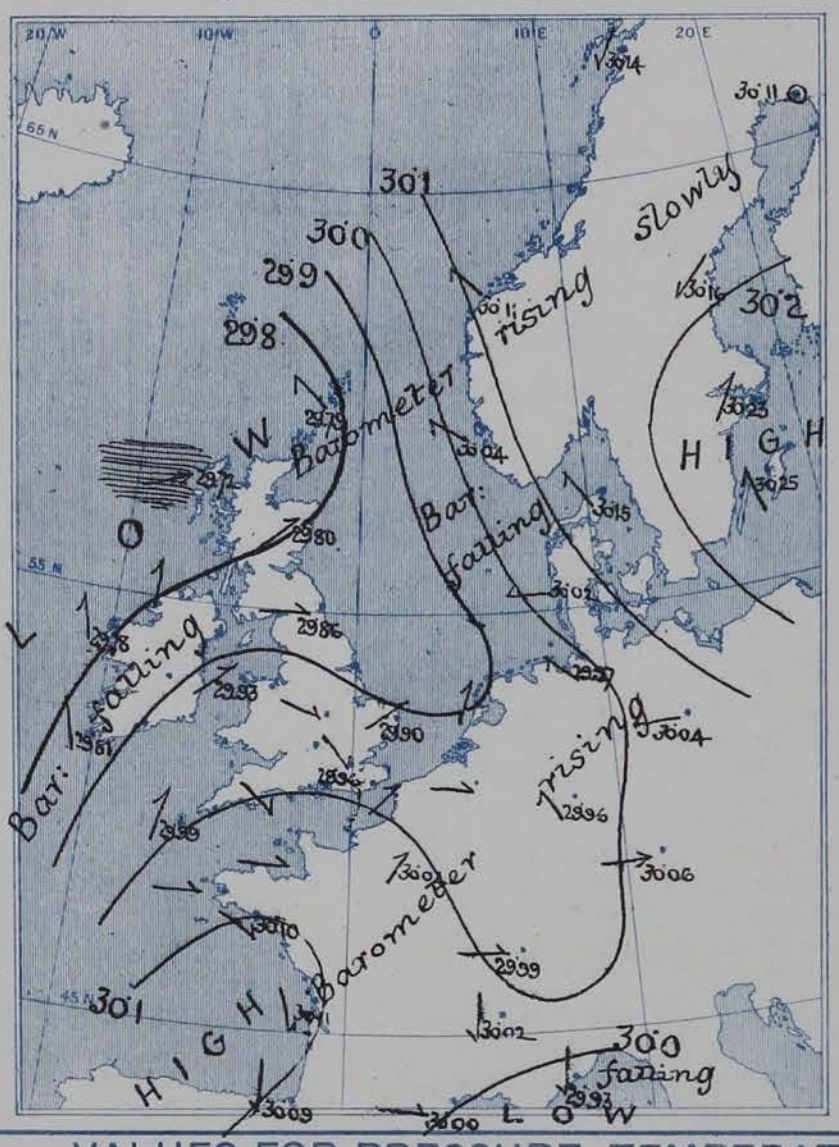
WEATHER CHARTS

FOR Thursday 13th July, 1899.

BAROMETER, WIND AND SEA.

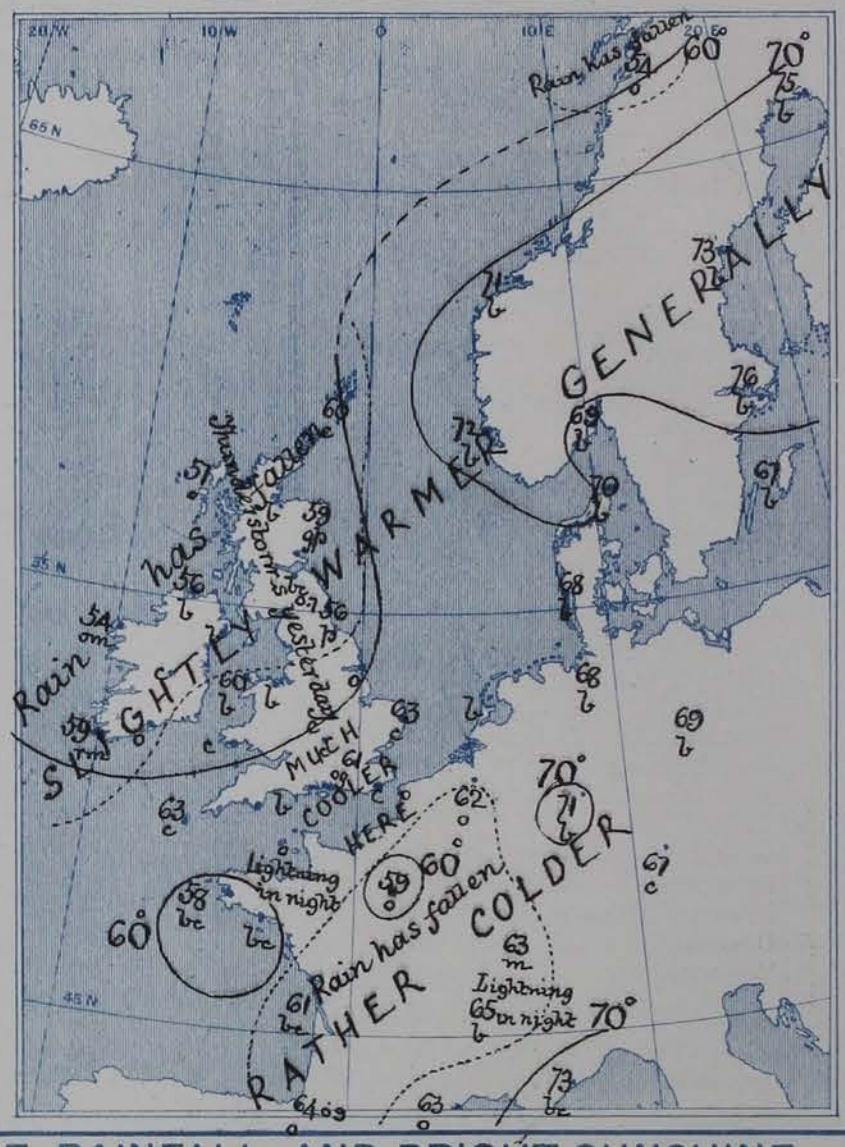
BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 : *Force 5 to 7* : } Calm ⊙
Force 8 to 10 : *Force 1 to 4* : }
SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR, 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 . 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 in: and upwards, in an anticyclone lying over the Baltic and the neighbouring parts of Scandinavia; 30·1 in: and upwards in another system over the Spanish Peninsula and the Bay of Biscay.
Lowest, 29·8 in: and less, in two depressions,—one lying off the north of Scotland and the other off the west of Ireland; 29·9 in: and less, in a secondary hollow over the North Sea.
Gradients slight. Barometer rising in most parts of our area, but falling in Ireland and also on the eastern shores of the North Sea.

TEMPERATURE

Highest, (1) ~~76° at Strathdon~~ 75° at Haparanda, 73° at Hernösand, and 72° at Rhudesnoes; (2) 73° at Nice, and 71° at Wiesbaden.
Lowest, (1) 54° at Boro; (2) 54° at Belmullet, 56° at Malin Head and Shields, and 57° at Stornoway and Wick.
During yesterday the thermometer rose to 76° at Oxford, and to 79° in London and at Loughborough; on some parts of our northern coasts it failed to reach 60°.

WIND

Light from the W.ly or NW.ly over the greater part of England and from the SW.ly in Scotland, moderate to fresh from the S.ly in Ireland.
E.ly or SE.ly over Denmark, North Germany, and the greater part of Scandinavia; light to moderate from the N.ly over the southern parts of France.

WEATHER

Fair or fine over Western Europe, but showery on the northeast coasts of Great Britain. Dull in the north of Scotland and the west and south of Ireland, with rain at Valencia.
Rain fell yesterday in the west and south of our Islands generally, and slight showers at some of our southern stations. Rain occurred also in many parts of France and Belgium. Thunder and lightning were reported at most stations in the northern and central parts of Great Britain, and lightning was seen at Jersey and Lyons in the night.

SEA

Moderate to smooth generally, but rather rough at Stornoway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed over England yesterday appears to have split into two portions, one of which has moved northeastwards to the North Sea, while the other has travelled on to the north of Scotland. A new disturbance is now approaching our western coasts, so that rain is again probable in the west and north. It is at present doubtful whether this will spread to our eastern and southern districts.

FORECASTS

For the 24 hours ending at NOON on 14th JULY, 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW.ly to S.ly winds, freshening; fair at first, some rain later.
1 SCOTLAND EAST	
2 ENGLAND N.E.	Same as No. 5.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	W.ly to SW.ly or S.ly winds; fair at first, doubtful later, probably some showers.
6 SCOTLAND WEST	Same as Nos. 0 and 1.
7 ENGLAND N.W.	S.ly to SW.ly winds, moderate or fresh; fair at first, some rain later.
8 ENGLAND S.W.	
9 IRELAND NORTH	S.ly to SW.ly or W.ly winds, fresh; dull, some rain.
10 IRELAND SOUTH	
WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30.06	71	64	S	6	bc	3
Sumburgh Head	29.88	56	56	NE	4	o	4
Stornoway... ...	29.88	55	54	ENE	4	r	4
Aberdeen	29.83	61	59	NE	2	og	2
Shields	29.73	63	61	ESE	3	bc	2
Malin Head ...	29.82	53	53	NW	5	o	4
Belmullet	29.95	59	53	NNW	2	b	*
Holyhead	29.81	57	56	NW	3	om	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.97	60	55	NW	3	cr	4
Scilly	29.88	58	55	NNW	6	opm	4
Jersey	29.88	64	59	SW	5	bc	4
Portland Bill ...	29.83	65	61	SW	3	bc	3
Dungeness ...	29.80	66	62	SW	4	c	4
London (Westminster)	29.79	76	69	WSW	3	c	*
Yarmouth ...	29.79	69	64	SE	2	b	3
Rochefort ...	29.94	63	60	NW	4	r	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning dull in the western and northern parts of the United Kingdom generally, with rain in many places, but fine on the west coasts of Ireland. Fine in the east and southeast of England, as well as over the greater part of the Continent, but dull in Spain and the southwestern parts of France, with a thunderstorm at Biarritz. Improvement taking place later on our eastern coasts, but thunderstorms and rain occurring over all the northern and central parts of Great Britain, and slight showers falling in the south of England. Rain also reported in many parts of France and Belgium.

Temperature rises over central and southeastern England, as well as in the western and northern parts of the Continent, fallen slightly in most other localities. Morning reading highest (1) 80° at Trieste, and 77° at Brindisi; (2) 78° in London and 74° at Cape Finisterre and Brussels; (3) 77° at Stockholm and 75° at Memel. Lowest 52° at Malin Head and 53° at Mullaghmore and Donaghadee. Rising during day to 75° and upwards at several of the English stations and to 79° in London and at Loughborough; exceeding 80° over France, Germany, and the Netherlands, and reaching 86° at Berlin and the Helder.

Winds light from the E. or SE. over the eastern and central parts of England and also over the Netherlands, Central France, Germany, Denmark, and the south of Norway; light from the NE. in Scotland; moderate to fresh from the N. on our western and the Portuguese coasts; moderate from W. or NW. in the west of France. Variable in Austria and Italy; light from the N. over the central and southern parts of Russia. Subsequently veering to the SW. in the southeast of England, but backing to NW. or W. in Ireland.

Barometer highest 30·1 in. to 30·3 in. in a large anticyclone covering the northeastern and central parts of Europe; 30·1 in. and upwards in another system off the Portuguese coasts. Lowest 29·8 in. and less in a shallow but well-marked depression over England and Wales; 29·9 in. and less in another shallow disturbance over France. English depression subsequently breaking into two portions, one moving to the North Sea and the other northward across Scotland.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Friday, 14th July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb.	Wet Bulb.	Change since Yesterday.	Wind. Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda	30.15	69	L	0	c	30.20	+.09	71	62	−4	NE	2	b	*	c	*	81	63	–
	Hernösand	30.13	75	S	6	b	30.15	−.01	74	64	+1	S	4	b	*	b	*	81	59	–
	Stockholm	30.22	68	S	2	b	30.23	.00	76	66	0	ESE	2	b	*	b	*	82	61	–
	Wisby	30.22	65	SE	3	b	30.23	−.02	75	64	+8	S	2	b	*	b	*	77	55	–
	Karlstad	30.14	74	L	0	b	30.16	−.01	70	65	−1	E	2	b	*	b	*	*	*	–
	Bodö	30.08	60	L	0	bc	30.07	−.07	67	60	+13	E	4	b	1	bc	*	?	54	0.35
	Christiansund ...	29.99	83	NE	3	bc	29.95	−.16	77	62	+6	SW	1	b	1	bc	*	83	66	–
	Skudesnaes ...	30.01	70	SSW	4	bc	30.00	−.04	64	62	−8	S	2	r	3	b.bc	*	73	63	*
	Færder (X'iania Fjord)	30.14	73	SSE	1	b	30.17	+.02	71	67	+2	SSE	2	b	1	b	*	75	68	–
	The Scaw (Skagen)	30.14	72	SE	1	b	30.12	−.03	69	65	−1	SE	3	b	0	b	*	90	68	–
	Fanö	30.04	71	ESE	6	b	30.06	+.04	66	63	−2	WSW	2	c	*	b	*	82	64	–
BRITISH ISLANDS	Sumburgh Head ...	29.83	56	N	1	0	29.79	.00	57	56	−3	S	3	bc	4	r.c	*	61	53	0.12
	Stornoway	29.75	61	SW	6	0	29.72	.00	58	57	+1	SW	4	0	4	c.0	6.6	63	54	0.08
	Wick	29.81	60	S	3	b	29.80	+.03	65	63	+8	W	3	b	1	b	*	68	50	–
	Nairn	29.80	66	SW	2	b	29.80	+.03	64	60	+4	SW	2	bc	1	b	*	69	54	–
	Aberdeen	29.83	68	SW	3	b	29.88	+.08	64	59	+5	SSE	3	bc	2	bc.b	7.8	70	55	–
	Leith	29.87	65	SSW	1	b	29.91	+.06	63	59	+5	WSW	2	0	*	b	*	71	57	–
	Shields	29.92	65	SSW	3	c	29.95	+.09	61	58	+5	SSW	3	cm	2	p.0,c	*	66	54	0.03
	Spurn Head ...	29.96	61	SSE	3	b	30.03	+.15	65	61	+5	SSW	2	c	2	b	*	65	56	–
	Loughborough ...	29.99	71	SW	1	bc	30.05	+.11	62	58	+2	SSW	2	0	*	c.bc.c	*	73	54	–
	Malin Head ...	29.75	62	S	5	bc	29.83	+.02	59	57	+3	SSW	4	bcp	3	0,bc	*	62	54	–
	Belmullet	29.78	61	SSW	5	0	29.88	+.10	59	55	+5	SW	2	bc	*	c.0	*	64	54	0.10
	Donaghadee .	29.88	61	S	5	0g	29.90	+.01	59	59	+1	S	3	cg	3	0g	*	65	55	0.01
	Liverpool (Bidston).	29.96	67	SW	2	b	29.99	+.04	64	60	+6	SE	2	c	2	c.p	*	68	57	0.03
	Holyhead	29.96	59	SW	4	cm	29.97	+.04	59	57	−1	SW	4	cp	3	bc.cm	*	62	56	0.03
	Parsonstown ...	29.84	68	SE	1	c	29.93	+.04	59	57	0	SW	1	0	*	c	5.0	70	46	0.01
	Valencia	29.86	60	S	3	0	29.97	+.16	58	55	−1	WSW	4	0	5	c.0	3.5	65	57	0.07
	Roche's Point ...	29.91	62	SSE	4	b	29.97	+.06	60	57	+2	WNW	4	0	3	m.b	*	64	56	0.01
	Pembroke (St. Ann's Hd.)	29.98	60	SW	5	r	30.02	+.04	59	57	0	SW	3	0	4	c.r	6.6	62	56	0.04
	Scilly	29.97	59	S	4	m	30.01	+.02	61	60	−2	S	2	f	1	0,m	4.1	65	59	0.01
	Jersey (St. Aubin's)	30.12	67	WNW	8	b	30.13	+.08	62	60	+1	SSW	3	0g	3	bc.b	*	68	54	–
	Portland Bill ..	30.09	62	W	5	b	30.09	+.08	59	58	0	SSW	4	0a	4	b	*	65	53	–
	Dungeness	30.01	63	WSW	5	bc	30.13	+.19	62	59	+1	SW	3	b	2	c.bc	*	67	57	–
	London (Brixton) ...	30.02	73	WSW	2	c	30.12	+.16	65	57	+4	SW	3	bc	*	c.b	3.9	75	52	–
	Oxford	30.03	65	W	2	bc	30.09	+.14	61	57	0	S	3	0	*	bc	*	73	54	–
	Yarmouth	29.98	64	NE	2	bc	30.09	+.19	66	60	+3	WSW	1	b	2	c.bc	*	69	53	–
GERMANY	Cuxhaven	29.96	73	E	3	c	30.06	+.09	65	62	−3	W	2	0	*	c	*	82	63	–
	Berlin	30.02	77	SE	1	b	30.04	.00	71	64	+2	ESE	1	b	*	b	*	86	66	–
	Wiesbaden	*	*	*	*	*	30.11	+.15	66	62	−5	NW	3	b	*	*	*	81	64	–
	Munich	30.10	66	SW	5	c	30.20	+.14	64	60	−3	W	4	bc	*	c	*	77	55	–
FRANCE & NETHERLANDS	The Helder ...	30.01	62	WSW	1	c	30.08	+.17	65	60	−2	WNW	1	b	0	c	*	70	59	–
	Brussels	*	*	*	*	*	30.17	+.19	61	55	−1	WSW	3	b	*	b	*	69	51	–
	C. Gris Nez ...	30.06	61	W	5	bc	30.15	+.20	60	56	−1	WSW	2	b	2	bc	*	64	55	–
	Paris	30.10	69	WNW	2	bc	30.20	+.16	63	58	+4	S	1	b	*	bc	*	75	53	–
	Brest	30.11	61	SSW	3	c	30.08	+.03	61	61	+3	SSW	2	f	2	c	*	66	55	0.08
	Lorient	30.15	64	SW	3	c	30.13	−.03	63	63	+4	W	2	c	4	c	*	79	55	0.04
	Rochefort	30.16	66	WNW	3	b	30.21	+.10	61	57	0	SE	2	b	0	b	*	70	55	–
	Belfort	30.03	67	W	6	c	30.15	+.16	60	58	−3	SSW	1	m	*	c	*	78	57	–
	Lyons	30.10	66	NW	1	0	30.16	+.14	64	60	−1	N	1	0	*	0	*	71	62	–
	Nice	29.93	72	S	1	bc	29.98	+.05	75	63	+2	E	1	b	0	bc	*	77	63	–
	Perpignan	30.04	68	NW	5	0	30.13	+.13	69	59	+6	NW	3	b	*	0	*	73	63	–
	Biarritz	30.14	66	N	8	bc	30.18	+.09	64	59	0	ENE	2	b	2	bc	*	68	57	–
SPAN. PEN.	Corunna																			
	Lisbon	30.14	64	N	5	b	30.13	−.04	73	69	+8	NE	4	b	*	b	*	77	63	–
	Azores (P. Delgada)	30.30	66	E	1	b	30.25	−.07	71	65	+2	NNW	1	7	2	b	*	75	63	–

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

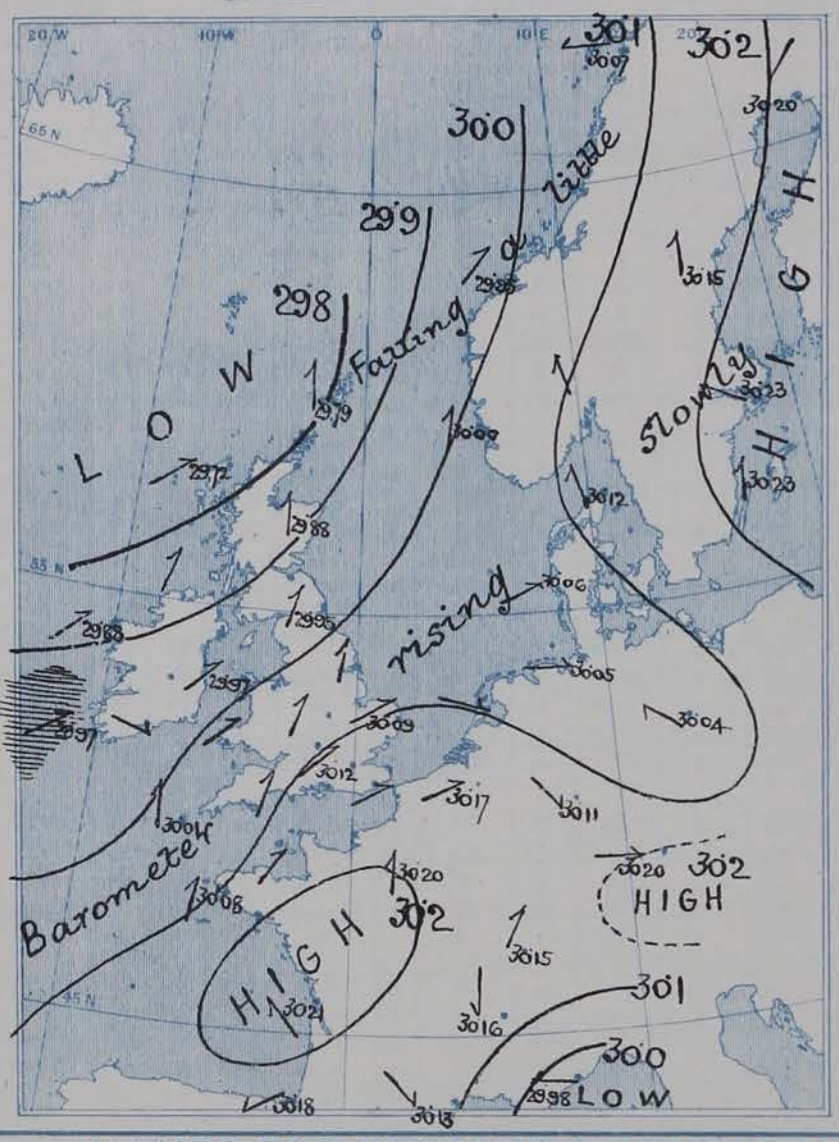
Bright Sunshine yesterday Southport 13.3 hrs.

WEATHER CHARTS

FOR Friday, 14th July, 1899.

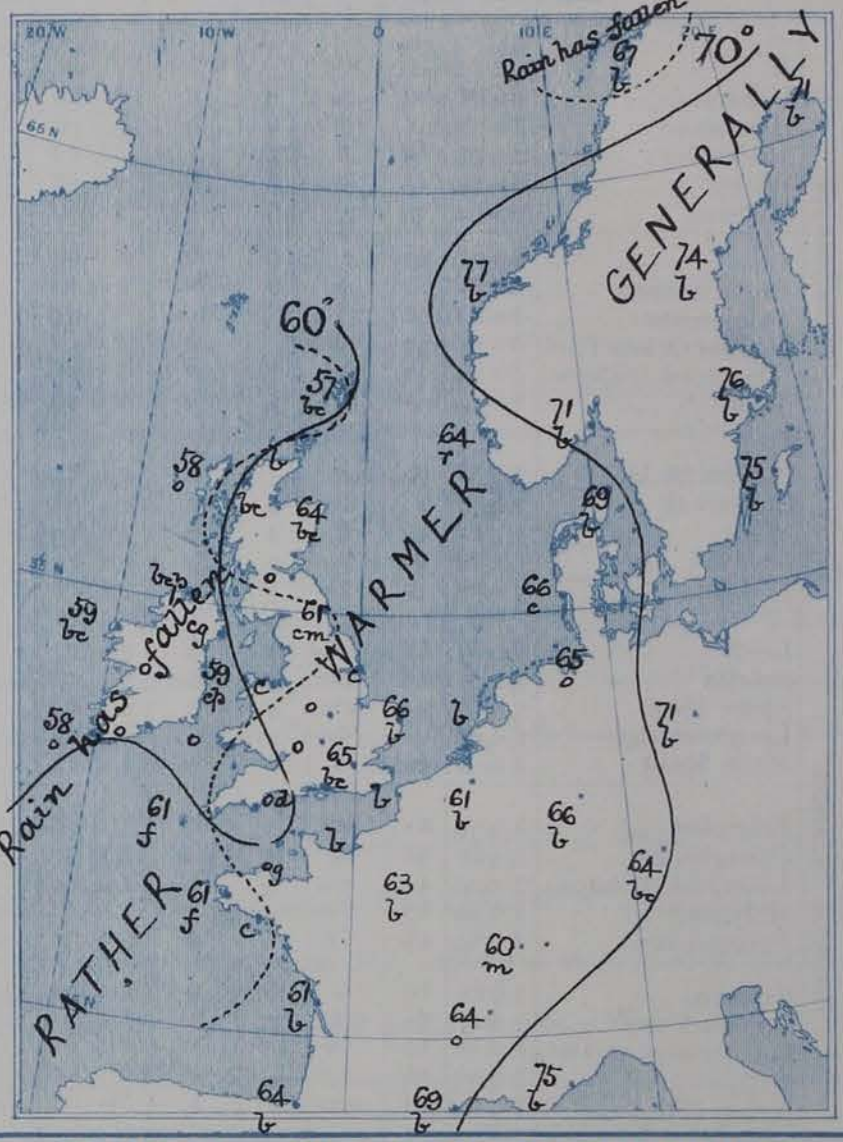
BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.
Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ : }
SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR, 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29·896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29.927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	--	—	—	—	—
Belmullet	29·889	57·5	54·9	62·2	53·8	—	—	—	—	3·59	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	2·82	—	—
Holyhead	29·909	58·1	55·8	63·7	54·2	83	1894	43	1888	2·37	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·99	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·98	136·5	27
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	4·23	153·8	31
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	3·18	—	—
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	2·53	199·7	40
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·47	—	—
Prawle Point	29·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·39	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·54	230·0	48
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·39	—	—
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·05	—	—
LONDON	29·953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·48	162·0†	33†
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·68	185·5	38
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·62	189·6	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and upwards over central France and S. Germany and also over Finland and the N.ern parts of the Baltic.
Lowest 29.8 ins. and less in a shallow-depression off the N. and NW. of Scotland; 30.0 ins. and less in another system over the Gulf of Genoa.
Gradients slight. Barometer rising over W.ern Europe generally, but falling a little in the W. of Norway.

TEMPERATURE

Highest (1) 77° at Christiansund, 76° at Stockholm, and 75° at Wisley; (2) 73° at Lisbon; highest in our Islands 66° at Yarmouth, and 65° in London and at Spurn Head and Wick.
Lowest 57° at Sumburgh Hd., 58° at Stornoway and Valencia (Ireland), and 59° at several of our non W.ern and SW.ern stations.
During yesterday the thermometer rose to 70° and upwards in many parts of the United Kingdom, and to 75° in London. At many of the Scandinavian and Danish stations it exceeded 80° and at Skagen it reached 90°.

WIND

Light to moderate from the S.ern or SW.ern over the greater part of our Islands and also in the west of Norway.
Light from the W.ern or NW.ern over the Netherlands; SE.ly to E.ly over Denmark and the south of Sweden; E.ly or NE.ly over the south of France and at Lisbon.

WEATHER

Fine over the E.rn and SE.rn parts of Gt. Britain, as well as at most of the Continental stations, but rain falling at Skudesnaes.
Dull in the W.rn and central parts of the United Kingdom, with showers at Malin Hd. and Holyhead; foggy at the mouth of the English Channel.
A little rain fell yesterday in the W. of our Islands generally, and also at Sumburgh Hd. & Shields.

SEA

Rather rough at Valencia (Ireland) and moderate on our SW.rn and extreme N.rn coasts generally, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday off our W.rn coasts has travelled away to the N.ward. There are at present no signs of the advance of any new disturbance, and fair weather is likely to prevail for a time over the greater part of the Kingdom.

FORECASTS

For the 24 hours ending at NOON on 15th JULY 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW.ly winds, moderate or fresh; cloudy, some rain.
1 SCOTLAND EAST 2 ENGLAND N.E.	S.ly and SW.ly winds, light; cloudy, local showers.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	SW.ly winds, light or moderate; fair generally.
6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	SW.ly and W.ly winds, moderate; cloudy, local showers.
WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30.04	73	66	SSE	4	b	3
Sumburgh Head	29.82	56	56	W	1	r	4
Stornoway... ...	29.76	63	56	SW	6	c	6
Aberdeen	29.82	68	60	S	2	bc	1
Shields	29.92	63	60	ESE	1	o	2
Malin Head ...	29.76	62	58	S	5	o	3
Belmullet	29.77	60	58	SSW	4	c	*
Holyhead	29.97	62	58	SW	4	bc	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F	WEA.	SEA.
Valencia	29.86	64	60	S	3	c	4
Scilly	29.99	62	60	S	3	o	2
Jersey	30.13	64	56	WNW	4	bc	3
Portland Bill ...	30.07	64	59	W	4	b	5
Dungeness ...	29.98	66	62	SW	5	c	4
London (Westminster)	29.99	74	65	W	3	bc	×
Yarmouth ...	29.95	66	63	W	3	c	3
Rochefort ...	30.15	69	61	WNW	3	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fair or fine over the greater part of our Islands and the Continent, but showery on the N.E. coasts of Gt. Britain, and dull in the N. of Scotland and the W. and S. of Ireland, with rain at Valencia. Dull also in several parts of France and Belgium. A little rain falling later at most of our own W^rn and extreme N^rn stations, as well as in the N.W. of France and at Bodö.

Temperature fallen considerably over England and to a less extent in France and Belgium, risen in most other countries. Morning readings highest (1) 78° at Trieste and Patras, and 77° at Athens; (2) 76° at Stockholm, and 75° at Haparanda; above 70° at several of the Scandinavian and Baltic stations. Lowest (1) 54° at Bodö; (2) 54° at Belmullet, and 56° at Malin Hd. and Shields. Rising during day to 70° and upwards in many parts of the United Kingdom, and to 75° in London; exceeding 75° in France, exceeding 80° in many parts of Scandinavia, Denmark and Germany, and reaching 90° at the Scaw.

Wind moderate to fresh from the S^wd in Ireland, and from the SW^wd in Scotland. Light from the W^wd or NW^wd over the greater part of England; E^ly or SE^ly over Norway, Denmark and Germany. N^ly over the Spanish peninsula and the southern parts of France; variable over Russia, Austria and Italy. Subsequently backing to the SW^wd over England; no important change occurring elsewhere.

Barometer highest 30.1 ins. to 30.3 ins. and upwards in an anticyclone covering the greater part of N^rn Europe; 30.1 ins. to 30.2 ins. in another system over the Bay of Biscay and the W^rn parts of France and Spain. Lowest 29.8 ins. and less in two depressions,—one lying off the N. of Scotland and the other off the W. of Ireland; 29.9 ins. and less in a secondary "hollow" over the North Sea. Depressions to the W. and N. of our Islands subsequently passing away to the N^wd and barometer rising in most part of W^rn Europe.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Saturday, 15th July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda	30.18	65	X	0	b	30.20	.00	69	63	- 2	SW	2	b	*	b	*	82	61	-
	Hernösand	30.17	66	X	0	b	30.19	+.04	68	64	- 6	SSW	4	b	*	b	*	79	59	-
	Stockholm	30.23	70	X	0	b	30.25	+.02	76	65	0	X	0	b	*	b	*	82	63	-
	Wisby	30.24	68	SSE	3	b	30.25	+.02	69	65	- 6	NW	4	b	*	b	*	81	57	-
	Karlstad	30.12	76	X	0	b	30.18	+.02	71	66	+ 1	S	2	b	*	b	*	*	*	-
	Bodö	30.08	63	X	0	b	30.07	.00	64	59	- 3	X	0	b	0	b	*	82	57	-
	Christiansund ...	30.07	63	X	0	m	30.14	+.19	60	59	- 17	X	0	f	1	m	*	77	59	-
	Skudesnaes ...	30.10	60	SSE	2	bc	30.12	+.12	63	60	- 1	SSE	2	b	2	bc	*	64	55	*
	Færder (X'iania Fjord)	30.10	71	SE	2	b	30.15	-.02	72	66	+ 1	S	2	b	1	b	*	77	68	-
	The Scaw (Skagen)	30.11	73	SSE	1	m	30.16	+.04	66	64	- 3	WNW	1	m	0	m	*	86	64	-
	Fanö	30.14	63	NW	1	c	30.17	+.11	63	60	- 3	NW	1	c	*	c	*	70	61	-
BRITISH ISLANDS	Sumburgh Head ...	29.90	60	SSW	2	c	29.93	+.14	57	57	0	X	0	m	3	bc.c	*	63	51	-
	Stornoway	29.86	60	SW	5	c	29.91	+.19	58	56	0	SSW	5	c	5	o.c	4.1	63	53	-
	Wick	29.91	64	W	2	bc	29.96	+.16	60	58	- 5	W	1	o	1	bc	*	70	54	0.01
	Nairn	29.91	67	SW	1	bc	29.97	+.17	59	56	- 5	W	1	c	3	bc	*	69	53	-
	Aberdeen	29.94	63	SSW	2	bc	29.99	+.11	64	58	0	SW	2	bc	1	c.bc	10.2	67	51	-
	Leith	29.93	69	SW	2	bc	30.02	+.11	62	56	- 1	S	3	o	*	bc	*	72	52	-
	Shields	29.98	66	SW	2	c	30.04	+.09	63	59	+ 2	SW	1	cm	2	c	*	73	53	-
	Spurn Head ...	30.03	73	SW	2	bc	30.09	+.06	63	61	- 2	WSW	3	c	2	bc	*	74	60	-
	Loughborough ...	30.04	71	WSW	2	c	30.14	+.09	62	56	0	W	3	bw	*	bc.c.b	*	76	52	-
	Malin Head ...	29.94	59	WNW	4	c	29.98	+.15	59	57	0	SW	4	c	3	b,c	*	64	54	-
	Belmullet	29.96	60	WSW	3	bc	30.02	+.14	60	56	+ 1	WSW	4	b	*	o,bc	*	62	55	-
	Donaghadee	29.96	64	S	3	cp	30.05	+.15	59	56	0	SW	3	c	2	cp	*	66	52	-
	Liverpool (Bidston).	30.03	63	SW	2	c	30.11	+.12	61	57	- 3	SW	2	bc	3	c	*	71	55	-
	Holyhead	30.02	61	SW	3	c	30.11	+.14	59	57	0	SW	3	c	2	bc.c	*	64	56	-
	Parsonstown ...	30.02	62	SW	1	o	30.08	+.15	59	55	0	S	1	c	*	c.o	4.0	66	51	-
	Valencia	30.04	61	SW	3	c	30.10	+.13	56	54	- 2	SW	3	op	5	c	4.3	64	57	0.05
	Roche's Point ...	30.06	61	SW	4	bc	30.12	+.15	60	58	0	SW	4	o	3	bc	*	64	55	-
	Pembroke (St. Ann's Hd.)	30.07	61	WNW	4	b	30.17	+.15	60	58	+ 1	SW	2	c	2	b	6.3	64	56	-
	Scilly	30.12	64	SW	2	c	30.16	+.15	60	60	- 1	S	1	of	1	c	10.0	67	60	-
	Jersey (St. Aubin's)	30.16	69	S	2	o	30.23	+.10	64	60	+ 2	WNW	1	og	1	o	*	69	54	0.01
	Portland Bill ...	30.13	62	SW	3	f	30.21	+.12	62	60	+ 3	SW	1	bc	2	c.f	*	66	54	-
	Dungeness	30.10	65	WSW	4	b	30.17	+.04	64	62	+ 2	WSW	3	bc	2	b	*	68	60	-
	London (Brixton) ...	30.11	69	WSW	4	bc	30.19	+.07	65	58	0	W	1	bc	*	o.bc.c	4.3	75	57	-
	Oxford	30.09	66	S	2	b	30.18	+.09	62	57	+ 1	WSW	2	b	*	b	*	72	53	-
	Yarmouth	30.08	69	S	3	b	30.13	+.04	66	60	0	WSW	3	b	2	b	*	70	58	-
GERMANY.	Cuxhaven	30.11	64	N	1	o	30.17	+.11	63	61	- 2	NW	1	b	*	o	*	75	61	-
	Berlin	30.08	67	WSW	1	o	30.14	+.10	65	62	- 6	W	1	o	*	o	*	82	63	0.59
	Wiesbaden	*	*	*	*	*	30.23	+.12	64	60	- 2	N	3	b	*	*	*	75	55	-
	Munich	30.22	63	SW	5	o	30.28	+.08	66	61	+ 2	W	3	c	*	o	*	72	59	0.04
FRANCE & NETHERLANDS.	The Helder ...	30.13	64	WSW	1	b	30.15	+.07	65	62	0	SW	1	c	1	b	*	72	50	-
	Brussels	*	*	*	*	*	30.22	+.05	68	62	+ 7	WSW	1	c	*	b	*	73	54	-
	C. Gris Nez ...	30.17	63	WSW	2	b	30.20	+.05	62	60	+ 2	W	1	c	1	b	*	72	57	-
	Paris	30.17	64	S	2	b	30.23	+.03	64	60	+ 1	SE	1	b	*	b	*	78	53	-
	Brest	30.19	63	SW	2	o	30.21	+.13	59	59	- 2	NW	1	f	2	o	*	66	57	-
	Lorient	30.22	64	WSW	1	f	30.23	+.10	63	63	0	WSW	2	o	2	f	*	81	57	-
	Rochefort	30.24	69	WNW	4	b	30.22	+.01	64	63	+ 3	E	1	m	*	c.b	*	68	59	-
	Belfort	30.14	67	E	1	o	30.19	+.04	64	59	+ 4	X	0	m	*	o	*	73	62	-
	Lyons	30.16	72	NNW	1	o	30.20	+.04	66	61	+ 2	NNW	1	b	*	o	*	76	60	-
	Nice	30.03	74	SW	2	b	30.06	+.08	75	63	0	ENE	2	b	0	b	*	86	66	-
	Perpignan	30.13	77	NW	3	b	30.19	+.06	72	61	+ 3	NW	2	b	*	b	*	83	61	-
	Biarritz	30.03	74	SW	2	b	30.17	-.01	65	61	+ 1	NNE	2	b	2	b	*	72	59	-
SPAN. PEN.	Corunna																*			
	Lisbon	30.09	74	NNW	5	b	30.10	-.03	73	64	0	NE	2	b	*	b	*	88	66	-
	Azores (P. Delgada)	30.27	68	X	0	c	30.26	+.01	70	66	- 1	X	0	c	2	c	*	77	64	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 5·0 *hrs.*

WEATHER CHARTS

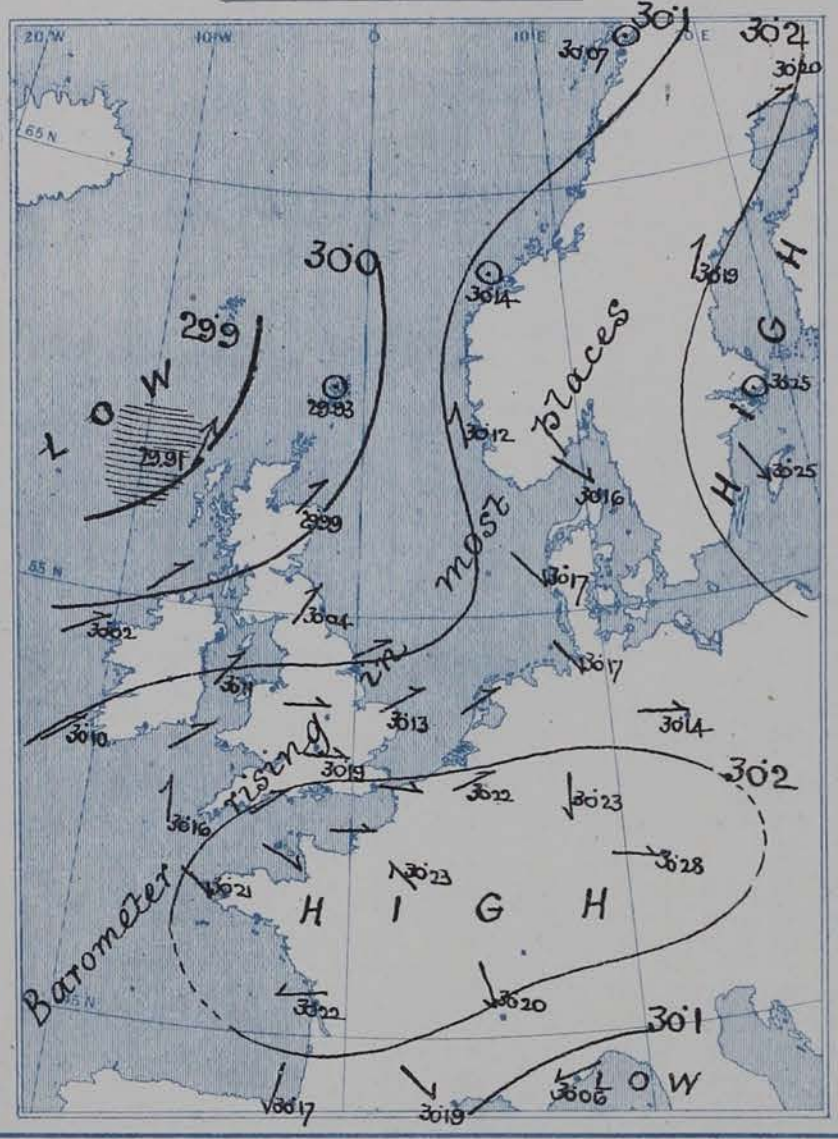
FOR Saturday, 15th July, 1899.

BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

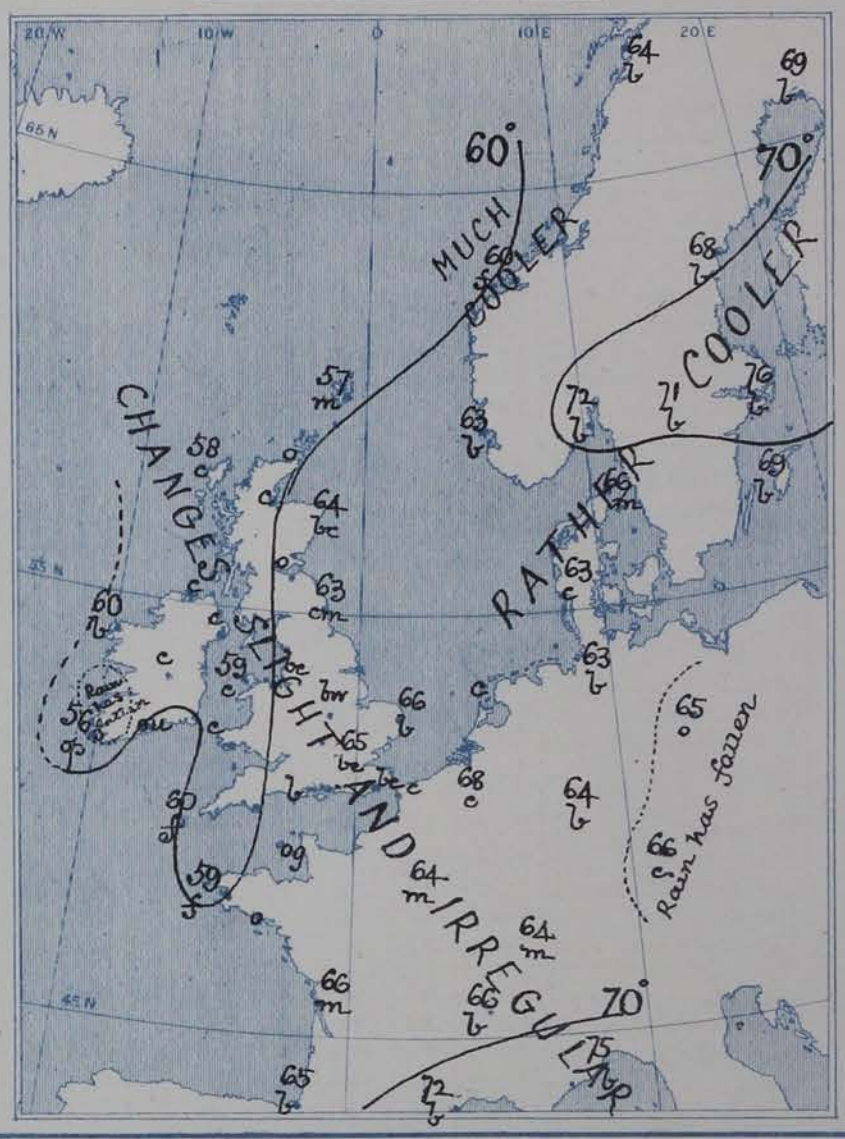
Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ : }

SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29·896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29.927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	--	—	—	—	—
Belmullet	29·889	57·5	54·9	62·2	53·8	—	—	—	—	3·59	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	2·82	—	—
Holyhead	29·909	58·1	55·8	63·7	54·2	83	1894	43	1888	2·37	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·99	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·98	136·5	27
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	4·23	153·8	31
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	3·18	—	—
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	2·53	199·7	40
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·47	—	—
Prawle Point	29·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·39	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·54	230·0	48
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·39	—	—
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·05	—	—
LONDON	29·953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·48	162·0†	33†
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·68	185·5	38
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·62	189·6	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 ins: and upwards over the English Channel, the northern and central parts of France, and South Germany, and also over the Gulf of Bothnia and the northern part of the Baltic.
Lowest, 29·9 ins: and less, in a shallow depression lying off the northwest of Scotland.
Gradients slight. Barometer rising a little in most places.

TEMPERATURE

Highest, (1) 76° at Stockholm, 72° at Faeroe and 71° at Karlstad; (2) 75° at Nice, 73° at Lisbon, and 72° at Perpignan.
Lowest, 56° at Valencia (Ireland), 57° at Lerwick Head, 58° at Stornoway, and 59° at Nairn, Malin Hd, Donaghadee, Parsonstown, Holyhead and Brest.
During yesterday the thermometer rose to 70° and upwards in many parts of the United Kingdom, to 75° in London and to 76° at Loughborough. At several of the Scandinavian and Danish stations it again exceeded 80°, and at the Scaw it reached 86°.

WIND

Light to moderate from the SW.ly over our Islands and the adjacent parts of the Continent, and from the S.ly over the greater part of Scandinavia, but calm on the west coast of Norway.
Light from the W.ly or NW.ly over Denmark and North Germany, and from the N.ly (NW to NE) over the southern parts of France.

WEATHER

Fair or fine over Western Europe as a whole, but foggy at the mouth of the English Channel and dull in the south of Ireland with showers at Valencia.
Slight showers fell yesterday at some places in Ireland and the north of Scotland, as well as at Jersey; in other parts of our Islands the weather was dry. Rain fell at some of the German stations.

SEA

Slight or smooth generally, but rather rough at Stornoway and Valencia (Ireland).

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any decided change in the weather.

FORECASTS

For the 24 hours ending at NOON on 16th JULY, 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW.ly winds, moderate or fresh; cloudy, some showers.
1 SCOTLAND EAST	S.ly and SW.ly winds, light; fair generally.
2 ENGLAND N.E.	
3 ENGLAND EAST	SW.ly and W.ly winds, light; fine, warm.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	SW.ly to S.ly winds, moderate or fresh; cloudy, some showers.
7 ENGLAND N.W.	Same as Nos 1 and 2.
8 ENGLAND S.W.	
9 IRELAND NORTH	Same as No 6.
10 IRELAND SOUTH	
WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30.09	57	55	WNW	4	r	2
Sumburgh Head	29.87	62	60	SSW	3	bc.	4
Stornoway... ...	29.81	63	57	SW	5	o	5
Aberdeen	29.95	64	60	S	2	c	2
Shields	29.97	72	65	SSW	2	c	2
Malin Head ...	29.91	64	61	WNW	3	b	2
Belmullet	29.94	61	56	WSW	4	o	*
Holyhead	30.01	64	60	SW	4	bc	3
Valencia	30.03	63	57	SW	3	c	5
Scilly	30.08	65	62	WSW	3	c	1
Jersey	30.16	67	64	SSE	3	o	3
Portland Bill ...	30.13	65	62	SW	4	c	4
Dungeness ...	30.14	66	62	SW	3	b	3
London (Westminster)	30.11	70	64	SW	2	o	*
Yarmouth ...	30.09	70	62	WSW	2	b	2
Rochefort ...	30.20	73	64	NW	2	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental Information not received.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Sunday 16th July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M.S.L.	Change since Yesterday.	Temperature. Dry Bulb	Wet Bulb	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall
		Ins.	°				Ins.	Ins.	°	°	°									Ins
SCANDINAVIA.	Haparanda	30·14	66	E	0	b	30·15	−·05	67	61	−2	SW	4	b	•	b	•	73	59	—
	Hernösand	30·16	66	S	2	b	30·15	−·04	68	62	0	S	4	b	•	b	•	77	54	—
	Stockholm	30·23	71	SSE	2	b	30·22	−·03	77	66	+1	S	2	b	•	b	•	82	63	—
	Wisby	30·23	68	SSE	4	b	30·23	−·02	70	62	+1	N	4	b	•	b	•	77	59	—
	Karlstad	30·15	75	S	2	b	30·19	+·01	71	65	0	SW	2	b	•	b	•	•	•	—
	Bodö	30·12	61	E	0	b	30·07	0·0	60	59	−4	E	0	b	0	b	•	64	55	—
	Christiansund ...	30·08	67	NE	3	c	30·07	+·03	63	60	+3	NE	1	r	1	c	•	67	59	0·32
	Skudesnaes ...	30·14	64	SSW	2	0	30·20	+·08	63	60	0	SW	2	c	2	bc,o	•	68	61	+
	Færder (X'iania Fjord)	30·14	68	SW	2	bc	30·17	+·02	70	61	−2	SW	2	b	1	bc	•	73	66	—
	The Scaw (Skagen)	30·17	66	NNW	1	0	30·19	+·03	66	63	0	NNW	1	m	0	o	•	77	63	—
	Fanö	30·19	64	W	2	b	30·21	+·04	64	59	+1	WSW	2	b	•	b	•	75	63	—
BRITISH ISLANDS.	Sumburgh Head ...	29·98	60	W	2	bc	30·05	+·12	59	55	+2	W	1	b	2	c,bc	•	62	51	—
	Stornoway	29·94	60	WSW	4	0	30·01	+·10	58	56	0	SW	4	o	4	c,r,o	4·2	61	52	1·10
	Wick	30·01	62	SW	2	bc	30·07	+·11	61	58	+1	S	2	b	1	bc	•	68	52	—
	Nairn	30·01	63	W	3	bc	30·07	+·10	61	56	+2	W	1	bc	1	bc	•	69	49	—
	Aberdeen	30·03	64	SW	2	bc	30·11	+·12	65	59	+1	SW	1	bc	1	c,bc	6·1	69	50	—
	Leith	30·06	67	SW	1	bc	30·12	+·10	65	59	+3	WSW	1	bc	•	bc	•	71	53	—
	Shields	30·09	65	E	2	c	30·16	+·12	64	60	+1	SW	1	c	2	c	•	70	52	—
	Spurn Head ...	30·13	65	NW	2	c	30·20	+·11	63	59	0	E	0	c	1	c	•	72	57	—
	Loughborough ...	30·16	71	W	2	bc	30·22	+·08	63	59	+1	WNW	1	bcw	•	bc,c,o,c	•	74	51	—
	Malin Head ...	30·05	60	W	2	c	30·07	+·09	57	56	−2	SSW	4	cmp	3	p,bc,c	•	63	54	0·04
	Belmullet	30·08	60	WSW	2	b	30·08	+·06	58	58	−2	SW	4	r	•	b	•	62	55	0·32
	Donaghadee ...	30·09	63	SSW	4	bc,pq	30·15	+·10	61	59	+2	SSW	3	b	3	bc	•	66	52	0·07
	Liverpool (Bidston).	30·16	64	WSW	2	bc	30·21	+·10	62	58	+1	SSE	1	bc	1	bc	•	67	55	—
	Holyhead	30·15	60	SW	3	cm	30·18	+·04	60	59	+1	SW	1	cf	1	c,om	•	63	55	—
	Parsonstown ...	30·11	63	SW	1	o	30·17	+·09	56	54	−3	S	1	o	•	c,o	5·9	68	48	0·02
	Valencia	30·15	63	SW	3	bc	30·18	+·08	60	59	+4	S	2	o	4	bc	10·6	65	55	0·01
	Roche's Point ...	30·14	65	W	4	bc	30·20	+·08	59	56	−3	SE	1	f	3	p,bc	•	65	54	0·05
	Pembroke (St. Ann's Hd.)	30·19	61	W	3	b	30·22	+·05	61	60	+1	SSW	2	b	2	b	10·8	64	57	—
	Scilly	30·20	65	S	2	bc	30·21	+·05	62	59	+2	WSW	1	bw	1	bc	8·2	68	58	0·07
	Jersey (St. Aubin's) ...	30·22	68	WNW	1	bc	30·24	+·01	69	62	+5	NNW	2	bm	2	og,bm	•	70	54	—
	Portland Bill ...	30·23	64	WSW	2	c	30·24	+·03	61	58	−1	N	1	b	1	c	•	66	51	—
	Dungeness	30·18	65	SW	4	c	30·20	+·03	68	61	+4	E	1	c	0	bc,c	•	68	57	—
	London (Brixton) ...	30·18	70	WSW	3	bc	30·22	+·03	65	59	0	SW	1	bc	•	o,b	6·4	75	55	—
	Oxford	30·19	63	WSW	2	b	30·22	+·04	64	59	+2	NW	1	b	•	b	•	71	55	—
	Yarmouth	30·14	68	E	1	b	30·19	+·06	62	58	−4	WNW	1	c	1	b	•	73	56	—
GERMANY.	Cuxhaven	30·17	68	N	1	b	30·19	+·02	66	63	+3	N	1	b	•	b	•	72	61	—
	Berlin	30·15	66	E	0	o	30·16	+·02	68	64	+3	WSW	1	b	•	o	•	77	61	0·51
	Wiesbaden	•	•	•	•	•	30·20	−·03	67	62	+3	SE	3	b	•	•	•	73	57	—
	Munich	30·25	68	SW	2	o	30·25	−·03	66	62	0	E	0	bc	•	o	•	73	57	—
FRANCE & NETHERLANDS.	The Helder ...	30·16	66	WSW	1	b	30·18	+·03	67	62	+2	SW	1	bc	0	b	•	70	54	—
	Brussels	•	•	•	•	•	30·23	+·01	64	58	−4	WNW	1	c	•	b	•	79	56	—
	C. Gris Nez ...	30·21	63	W	3	bc	30·23	+·03	63	60	+1	NW	1	bc	1	bc	•	70	59	—
	Paris	30·21	73	NNW	2	bc	30·21	−·02	68	62	+4	NE	1	bc	•	bc	•	78	60	—
	Brest	30·23	61	W	1	bc	30·23	+·02	59	56	−2	E	1	c	1	bc	•	70	48	—
	Lorient	30·23	68	W	2	c	30·22	−·01	59	58	−4	E	2	c	2	c	•	79	55	—
	Rochefort	30·21	70	NW	3	b	30·18	−·04	66	63	+2	NNW	1	b	•	b	•	75	61	—
	Belfort	30·15	69	ENE	1	o	30·15	−·04	64	59	0	NNE	1	m	•	o	•	77	55	—
	Lyons	30·16	75	NNE	1	b	30·17	−·03	68	60	+2	N	1	b	•	b,2	•	80	60	—
	Nice	30·04	77	SW	2	b	30·08	+·02	72	64	−3	E	0	b	0	b	•	86	64	—
	Perpignan	30·12	85	N	2	b	30·17	−·02	72	64	0	SW	1	b	•	b	•	90	62	—
	Biarritz	30·14	70	NNE	4	b	30·12	−·05	67	63	+2	S	2	b	3	b	•	73	63	—
SPAN. PEN.	Corunna	30·24	66	NW	3	f	30·14	−·06	64	63	+1	NW	1	f		f	•	68	61	—
	Lisbon	30·03	77	N	5	b	30·05	−·05	78	63	+5	NE	3	b	•	b	•	92	70	—
	Azores (P. Delgada)	30·29	70	E	0	b	30·30	+·04	69	68	−1	NW	1	?b	2	bc,b	•	75	66	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 8·5 hrs.

WEATHER CHARTS

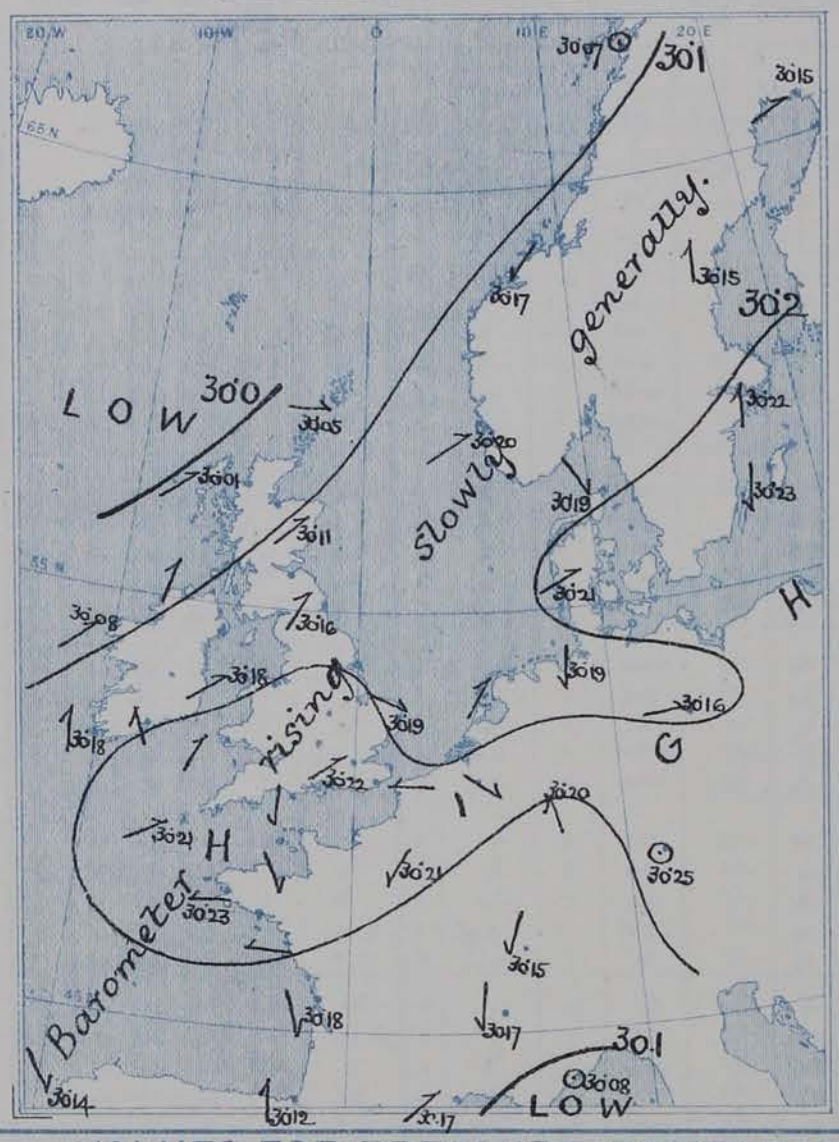
FOR Sunday, 16th July, 1899.

BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

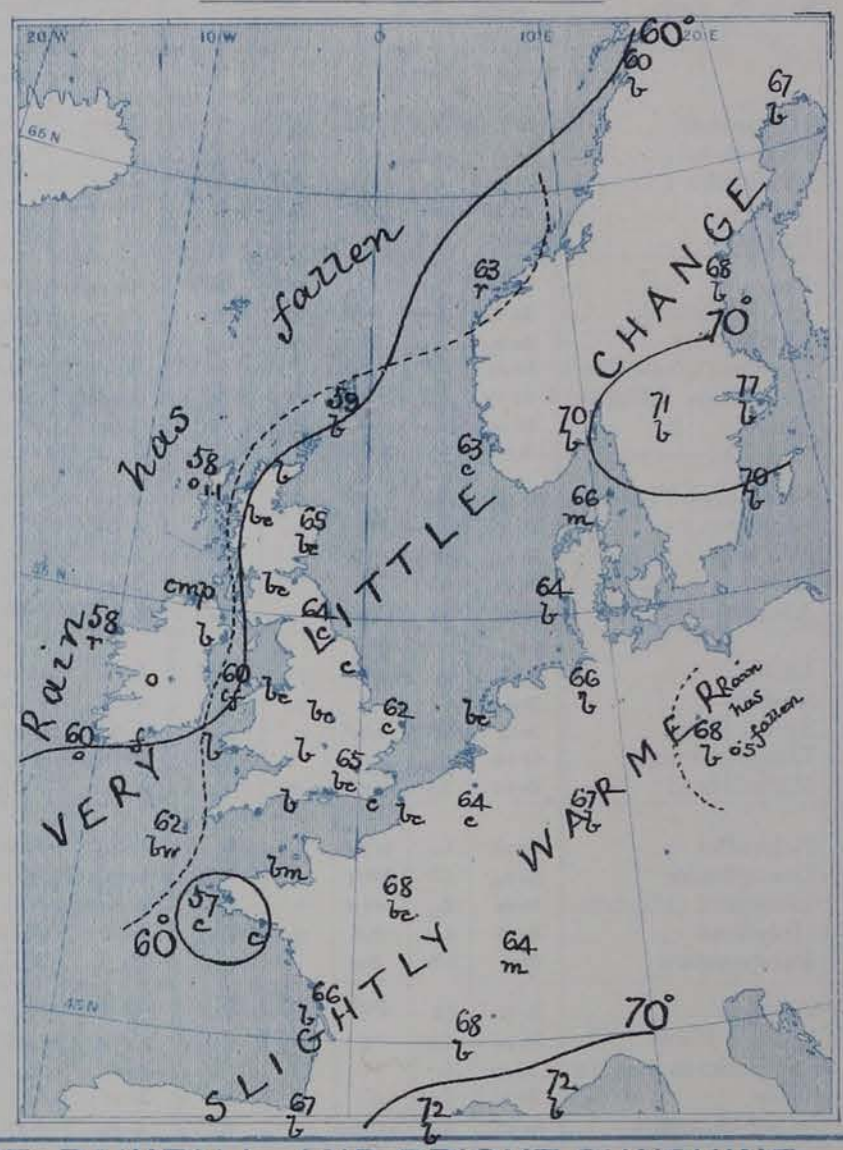
Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ : }

SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29·896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29·927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	—	—	—	—	—
Belmullet	29·889	57·5	54·9	62·2	53·8	—	—	—	—	3·59	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	2·82	—	—
Holyhead	29·909	58·1	55·8	63·7	54·2	83	1894	43	1888	2·37	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·99	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·98	136·5	27
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	4·23	153·8	31
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	3·18	—	—
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	2·53	199·7	40
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·47	—	—
Prawle Point	29·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·39	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·54	230·0	48
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·39	—	—
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·05	—	—
LONDON	29·953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·48	162·0†	33†
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·68	185·5	38
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·62	189·6	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30·2 ins. and upwards in an irregularly shaped area lying over England, the north of France, Belgium, Germany, Denmark and the south of Sweden. Lowest 30·0 ins. and less in a shallow depression lying off the northwest of Scotland. Gradients slight. Barometer changing very little, – rising in most places, but falling on our extreme northwest coasts, as well as in the west of France and in Sweden.

TEMPERATURE — Highest (1) 78° at Lisbon and 72° at Nice and Perpignan, (2) 77° at Stockholm and 71° at Karlstad. Lowest 56° at Parsonstown, 57° at Malin Head and Roche's Point and 58° at Stornoway & Belmullet. During yesterday the thermometer rose to 70° and upwards in many parts of Great Britain and to 75° in London.

WIND — Light from the westward or Southwestward over the Eastern & Central parts of Great Britain as well as in Denmark and the south of Scandinavia. Southerly or Southwesterly in Ireland and the west and north of Scotland; variable over the northern parts of Scandinavia. Northerly over Central France, but Southerly in the south of that country; variable in Germany.

WEATHER — Fine over Western Europe as a whole, but dull on the west coasts of Ireland and in the Hebrides, with rain at Belmullet and passing showers at Malin Head. Rain was also falling at Christiansund. A little rain fell yesterday at several of our own western stations and a larger quantity at Christiansund and also at Berlin.

SEA — Slight or smooth generally, but moderate at Stornoway and also at Valencia (Ireland).

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 17th JULY 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED.	6 SCOTLAND WEST	NONE ISSUED.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·13	68	63	S	6	bc	3
Sumburgh Head	29·94	59	56	WNW	2	c	3
Stornoway... ...	29·93	58	56	WSW	5	r	5
Aberdeen	30·00	67	56	SSW	3	c	2
Shields	30·08	68	60	SW	2	c	2
Ardrossan ...							
Malin Head ...	30·03	60	59	W	4	bc	3
Belmullet	30·06	62	57	WSW	2	b	*
Holyhead	30·16	63	60	SW	3	c	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	30·13	65	60	SW	4	bc	4
Scilly	30·19	67	62	WSW	1	bc	1
Jersey	30·24	65	62	SSE	2	o	2
Portland Bill ...	30·23	65	62	WSW	1	c	2
Dungeness ...	30·18	67	62	SW	4	bc	2
North Foreland							
London (Westminster)	30·18	72	58	W	2	c	*
Yarmouth ...	30·13	73	61	WSW	3	b	2
Rochefort ...	30·24	75	68	NNW	1	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fair or fine over the greater part of our Islands and the Continent, but foggy at the mouth of the English Channel and dull in the south of Ireland, with showers at Valencia. Cloudy or dull also over Austria and Eastern Germany. Showers falling later at many of our own western stations, and a considerable quantity of rain at Christiansund, and also at Berlin.

Temperature fallen in the northern countries, changed rather irregularly elsewhere. Morning readings highest (1) 82° at Patras, 81° at Athens and 79° at Trieste; (2) 76° at Stockholm and 73° at Kuopio, Riga and Swinemünde; highest in our Islands 66° at Yarmouth. Rising during day to 70° and upwards in many parts of England and to 75° in London. Exceeding 80° at some of the Swedish stations, and also over the greater part of Southern Europe, and reaching 90° at Perpignan and Lisbon.

Wind light to moderate from the southwestward over our Islands and the adjacent parts of the Continent and from the southwestward over the greater part of Scandinavia, but calm on the west coast of Norway. Light from the Westward or Northwestward over the greater part of Denmark, Germany, Austria and Southern Italy. Variable over Russia and Northern Italy; Northerly in the south of France; Northeasterly in Spain. Subsequently shifting to the Eastward on the east coasts of England; no important change occurring elsewhere.

Barometer highest 30.1 inches to 30.2 inches and upwards in an anticyclone covering all but the southeastern and extreme northwestern parts of Europe. Lowest 29.9 inches and less in a shallow depression lying off the northwest of Scotland, and also, apparently, in another shallow area over Asia Minor. No material change taking place during day.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Monday 17th July **1899.**

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb	Wet Bulb	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
SCANDINAVIA	Haparanda	30·05	67	WSW	2	b	30·04	−·11	71	61	+ 4	E	0	b	*	b	*	73	63	—
	Hernösand	30·11	68	SW	2	b	30·07	−·08	71	66	+ 3	SW	2	b	*	b	*	77	54	—
	Stockholm	30·18	72	E	0	b	30·13	−·09	74	67	− 3	E	0	b	*	b	*	84	63	—
	Wisby	30·28	71	E	2	b	30·15	−·08	70	61	0	N	4	b	*	b	*	77	59	—
	Karlstad	30·13	77	WSW	2	c	30·12	−·07	68	62	− 3	NW	2	b	*	c	*	*	*	—
	Bodö	30·15	61	W	4	c	30·15	+·08	59	56	− 1	E	0	b	1	c	*	66	55	0·12
	Christiansund ...	30·12	62	E	0	r	30·13	−·04	63	59	0	E	0	bc	1	r	*	66	55	0·04
	Skudesnaes ...	30·22	63	NW	2	b	30·15	−·05	62	57	− 1	NW	2	b	1	b	*	68	57	*
	Færder (X'iania Fjord)	30·13	69	SSW	2	b	30·13	−·04	67	63	− 3	NW	1	0	1	b	*	72	64	—
	The Scaw (Skagen)	30·17	67	E	0	b	30·13	−·06	67	63	+ 1	NNW	1	m	0	b	*	79	63	—
	Fanö	30·14	63	NW	2	c	30·15	−·06	63	60	− 1	N	2	bc	*	c	*	73	59	—
BRITISH ISLANDS	Sumburgh Head ...	30·07	62	W	1	bc	30·04	−·01	59	58	0	W	1	c	2	bc	*	63	52	—
	Stornoway	2999	61	S	3	p	30·01	·00	56	55	− 2	SSW	4	o	4	o, p	2·8	63	49	0·12
	Wick	30·07	64	S	3	bc	30·06	−·01	61	57	0	S	2	bc	1	bc	*	68	52	—
	Nairn	30·07	65	W	2	c	30·07	·00	59	56	− 2	E	0	c	1	c	*	69	50	—
	Aberdeen	30·10	62	S	3	c	30·09	−·02	61	56	− 4	SW	2	bc	1	c, p	5·8	70	55	0·01
	Leith	30·10	69	WSW	2	bc	30·09	−·03	65	59	0	E	0	bc	*	bc	*	70	53	—
	Shields	30·15	63	NE	2	cp	30·13	−·03	60	56	− 4	WSW	2	c	2	r, c	*	65	50	0·13
	Spurn Head ...	30·17	64	SE	4	c	30·17	−·03	65	61	+ 2	E	1	c	1	c	*	68	59	—
	Loughborough ...	30·17	73	W	2	b	30·17	−·05	64	58	+ 1	ESE	1	bmw	*	bc, c, bm	*	74	46	—
	Malin Head ...	30·09	54	W	5	op	30·08	+·01	59	58	+ 2	SW	4	op	2	op	*	63	56	0·09
	Belmullet	30·13	61	SW	3	o	? 30·10	+·02	60	59	+ 3	WSW	3	o	*	o	*	62	57	0·03
	Donaghadee ...	30·14	64	S	3	bc	30·14	−·01	61	59	0	SW	2	cg	2	bc	*	68	52	0·05
	Liverpool (Bidston)	30·20	65	WNW	1	b	30·16	−·05	65	59	+ 3	SE	1	b	1	b	*	68	55	—
	Holyhead	30·20	62	SW	3	b	30·15	−·03	60	59	0	SW	2	cp	1	b	*	65	56	0·03
	Parsonstown ...	30·15	67	SW	1	o	30·16	−·01	62	60	+ 6	SE	1	c	*	c, o	7·2	71	53	0·12
	Valencia	30·17	65	S	2	b	30·10	−·08	61	59	+ 1	SSE	3	og	3	b	11·6	68	54	—
	Roche's Point ...	30·21	63	SSE	2	b	30·14	−·06	61	58	+ 4	S	2	o	3	b	*	65	55	0·01
	Pembroke (St. Ann's Hd.)	30·20	63	W	2	b	30·17	−·05	58	56	− 3	E	1	c	1	b	14·3	64	56	—
	Scilly	30·20	66	SSE	1	b	30·12	−·09	63	60	+ 1	E	2	bc	1	b	14·3	69	59	—
	Jersey (St. Aubin's) ...	30·20	68	NNW	3	b	30·13	−·07	67	60	− 3	NNW	2	bm	2	b, c	*	73	56	—
	Portland Bill ...	30·21	64	WNW	3	b	30·15	−·09	65	59	+ 4	ENE	2	b	2	b	*	68	55	—
	Dungeness	30·17	67	SW	2	b	30·14	−·06	67	64	− 1	ENE	2	b	1	b	*	70	?58	—
	London (Brixton) ...	30·17	73	W	1	c	30·16	−·06	66	60	+ 1	SW	1	b	*	o, bc, b	3·7	79	53	—
	Oxford	30·17	69	N	1	c	30·15	−·07	67	61	+ 3	NE	1	b	*	c	*	76	52	—
	Yarmouth	30·19	65	ENE	2	bc	30·16	−·03	63	59	+ 1	SSE	2	bc	2	bc	*	68	59	—
GERMANY.	Cuxhaven	? 30·15	68	NW	3	b	30·12	−·07	65	62	− 1	N	1	o	*	b	*	70	63	—
	Berlin	30·13	67	E	0	c	30·09	−·07	67	64	− 1	WNW	1	b		c	*	81	61	—
	Wiesbaden	*	*	*	*	*											*			
	Munich	30·17	67	E	0	bc	30·17	−·08	65	61	− 1	NW	4	b	*	bc		77	55	—
FRANCE & NETHERLANDS.	The Helder ...	30·17	65	N	1	bc	30·15	−·03	66	60	− 1	NNE	1	b	1	bc	*	70	61	—
	Brussels	*	*	*	*	*	30·16	−·07	66	61	+ 2	NE	1	b	*	o	*	77	53	—
	C. Gris Nez ...																*			
	Paris	30·19	76	NE	2	bc	30·18	−·08	66	62	+ 2	NE	1	b	*	bc	*	79	59	—
	Brest	30·18	71	NE	1	b	30·12	−·11	59	55	+ 2	E	2	b	1	b	*	72	52	—
	Lorient	30·15	71	W	1	c	30·10	−·12	63	63	+ 4	E	2	c	2	c	*	77	55	—
	Rochefort	30·12	73	NW	3	bc	30·04	−·14	68	64	+ 2	ENE	2	bc	*	bc	*	77	63	—
	Belfort	*													*		*			
	Lyons	30·10	77	N	1	b	30·06	−·11	69	63	+ 1	N	1	bc	*	b, r	*	82	62	—
	Nice	30·04	73	SW	4	b	29·96	−·12	75	68	+ 3	E	1	bc	0	b	*	82	63	—
	Perpignan	30·07	81	SE	1	b	30·06	−·11	75	67	+ 3	E	0	b	*	b	*	91	61	—
	Biarritz	30·02	72	NNE	3	b	30·02	−·10	76	66	+ 9	E	4	b	2	b, b	*	88	66	—
SPAN. PEN.	Corunna																*			
	Lisbon	30·08	79	N	3	b	30·04	−·01	81	62	+ 3	ENE	1	b	*	b	*	93	73	—
	Azores (P. Delgada)																*			

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 13·1 *hrs.*

WEATHER CHARTS

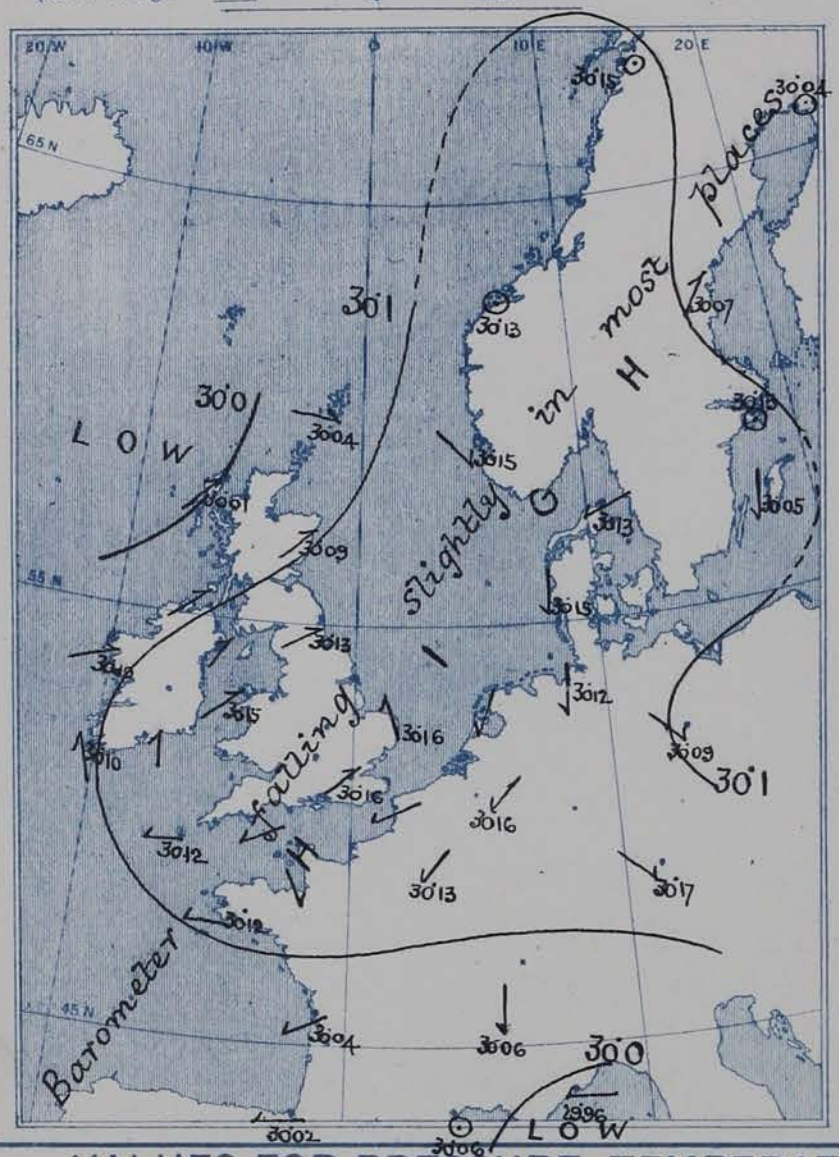
FOR Monday, 17th July, 1899.

BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

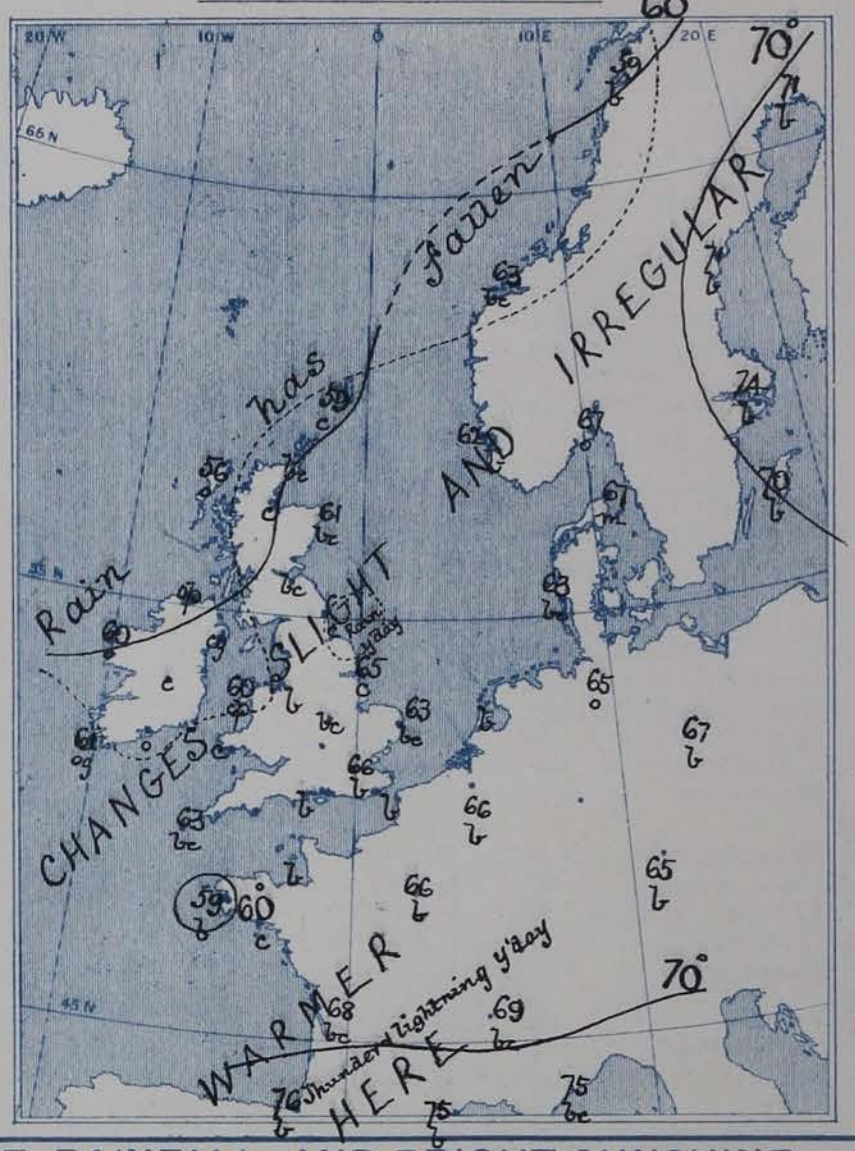
Force above 10 : *Force 5 to 7* : } Calm⊙
Force 8 to 10 : *Force 1 to 4* : }

SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 . 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	--	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 inches and upwards in an anticyclone covering Ireland, England, and the western and central parts of the Continent generally.
Lowest 30.0 inches and less in a shallow depression off the northwest of Scotland, and also in another system lying off the extreme south of France.
Gradients slight. Barometer falling a little in most places.

TEMPERATURE

Highest (1) 81° at Lisbon, 76° at Biarritz and 75° at Nice and Perpignan; (2) 74° at Stockholm and 71° at Haparanda and Karlsund; highest in our Islands 67° at Oxford and Dungeness.
Lowest 36° at Stornoway, 58° at Pembroke and 59° at Bodö, Lambrigh Head, Naze and Malin Head.
During yesterday the thermometer rose to 70° and upwards in several parts of the United Kingdom, to 76° at Oxford and to 79° in London.

WIND

Light from the Eastward or Northeastward over the English Channel and the greater part of France.
Variable over the eastern and central parts of Great Britain; Southerly or Southwesterly in Ireland, and the west and north of Scotland.
Calm at the northern Scandinavian stations, light to moderate from North or Northwest over Denmark, North Germany and the south of Scandinavia.

WEATHER

Fine over Western Europe as a whole, but dull in the Hebrides and the west and south of Ireland, and showery at Malin Head and Valentia.
Showers fell yesterday at several of our western and northern stations, and also in the west of Norway. Thunder and lightning occurred at Biarritz, and lightning only at Lyons.

SEA

Smooth generally, but moderate off the Hebrides.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone appears to be gradually giving way, but the fall of the barometer is at present too slight to lead to anything beyond an increased uniformity in pressure, and more variable winds.

FORECASTS

For the 24 hours ending at NOON on JULY 18TH 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	Southerly and Southwesterly winds light or moderate; fair generally, but perhaps local showers.	6 SCOTLAND WEST	Same as Nos. 0 and 1.
2 ENGLAND N.E.	Light variable airs; fair, warm.	7 ENGLAND N.W.	Same as No. 2.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	Variable breezes, finally Northeasterly; fine, warm.	8 ENGLAND S.W.	Easterly and Southeasterly winds, light or moderate; fair generally.
		9 IRELAND NORTH	Same as Nos. 0 and 1
		10 IRELAND SOUTH	Same as No 8.
		WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·18	68	61	SW	2	b	2
Sumburgh Head							
Stornoway... ...	30·02	61	57	SW	4	o	4
Aberdeen							
Shields							
Ardrossan ...							
Malin Head ...	30·06	60	60	SSW	5	o	3
Belmullet	30·13	60	57	WSW	4	o	*
Holyhead							
Valencia							
Scilly							
Jersey	30·24	72	60	NW	4	b	3
Portland Bill ...							
Dungeness ...	30·19	70	65	SW	2	b	1
North Foreland							
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30·16	76	70	NNW	2	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM 9TH TO 15TH JULY 1899.

At the beginning of the week a broad anticyclonic band stretched from Northeast to Southwest across the northern and central parts of Europe, the weather in the northwestern and northeastern regions being influenced;– (1) by a depression which skirted our extreme northwest coasts, and (2) by another disturbance lying over the Black Sea. The former disturbance occasioned rain in all the more western and northern parts of our Islands, while the latter was attended by considerable falls in many parts of Russia and Austria.

On the 10th the anticyclone divided into two portions, one of these taking up its position over Northern, ~~Southern~~ and the other over Southwestern Europe. In our Islands and France the weather was now affected by shallow depressions which formed immediately over those countries, the most important of these appearing over our own western coasts on the 11th and afterwards moving northeastwards and northwards, first to the North Sea, and afterwards to to the north of Scotland. During the progress of this disturbance heavy rain fell at most of our own western and northern stations and showers in many other parts of Western Europe, while severe thunderstorms occurred over the northern and central parts of Great Britain as well as at some of the French stations.

Towards the end of the week the anticyclone over Southwestern Europe spread Northeastwards, and fine weather set in over all but the extreme western and northern parts of our Islands, where the conditions were affected by some depressions moving northeastwards out in the Atlantic.

Temperature was mostly high for the time of year; readings above 80° were recorded in many parts of England on the 11th and later on over all the more northern parts of Europe; at the Skaw the thermometer rose to 90° both on the 12th and 13th.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal: The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Tuesday 18th July, **1899.**

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb	Temperature. Wet Bulb	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
SCANDINAVIA	Haparanda	29.99	63	2	0	bc	30.03	−.01	64	64	− 2	N	2	b	•	bc	•	77	61	—
	Hernösand	30.05	65	2	0	bc	30.02	−.05	67	62	− 4	N	2	b	•	bc	•	81	55	—
	Stockholm	30.04	72	2	0	bc	30.02	−.11	78	68	+ 4	E	2	b	•	bc	•	84	63	—
	Wisby	30.07	65	SE	4	b	30.02	−.13	70	66	0	ENE	2	b	•	b	•	72	59	0.47
	Karlstad	30.04	68	W	2	c	30.02	−.10	69	64	+ 1	NE	2	c	•	c	•	•	•	—
	Bodö	30.12	63	2	0	b	30.11	−.04	59	56	0	2	0	b	0	b	•	64	55	—
	Christiansund ...	30.08	64	N	2	b	30.03	−.10	63	59	0	NW	2	b	1	b	•	64	57	—
	Skudesnaes ...	30.10	64	NW	2	b	30.08	−.07	63	59	+ 1	2	0	b	0	b	•	66	55	•
	Færder (X'iania Fjord)	30.04	70	SSW	2	b	30.02	−.11	68	62	+ 1	SSE	2	0	1	b	•	73	64	—
	The Scaw (Skagen)	30.08	64	NW	1	bc	30.04	−.09	66	60	− 1	W	2	m	0	bc	•	75	61	0.12
	Fanö	30.10	63	NW	4	c	30.10	−.05	63	59	0	NNW	4	b	•	c	•	73	57	—
BRITISH ISLANDS	Sumburgh Head ...	30.02	59	W	1	c	29.95	−.09	57	56	− 2	S	1	0	2	bc, c	•	62	53	—
	Stornoway	29.98	60	SW	3	0	29.95	−.06	57	54	+ 1	W	3	c	3	0	4.1	63	51	0.02
	Wick	30.03	60	SW	2	c	30.00	−.06	59	57	− 2	W	2	0	1	c	•	65	50	0.10
	Nairn	30.01	65	W	3	c	30.00	−.07	60	57	+ 1	2	0	0	0	c	•	70	55	—
	Aberdeen	30.05	61	S	2	c	30.01	−.08	65	60	+ 4	WSW	2	cp	1	bctp, c	6.4	68	55	0.13
	Leith	30.06	65	2	0	c	30.03	−.06	64	58	− 1	SW	1	c	•	c	•	69	54	0.05
	Shields	30.09	61	ENE	2	c	30.05	−.08	65	61	+ 5	SW	1	cp	2	thr, c	•	66	55	0.12
	Spurn Head ...	30.10	63	ESE	2	c	30.09	−.08	64	61	− 1	SE	2	b	2	c, thr	•	68	58	0.04
	Loughborough ...	30.08	74	WNW	1	c	30.10	−.07	66	62	+ 2	ESE	1	bm	•	thr, f, m	•	80	54	0.09
	Malin Head ...	30.00	63	NW	1	b	30.02	−.06	59	59	0	SW	1	p	1	b	•	64	58	0.02
	Belmullet	30.08	63	SW	2	b	29.97	−.13	61	59	+ 1	SW	2	0	•	b	•	65	59	—
	Donaghadee ...	30.06	65	WSW	3	b	30.04	−.10	59	58	− 2	SW	2	bm	2	b, p	•	67	54	0.11
	Liverpool (Bidston)	30.10	64	WNW	2	c	30.08	−.08	67	62	+ 2	ESE	1	b	1	c	•	70	55	—
	Holyhead	30.10	62	SW	2	c	30.06	−.09	62	58	+ 2	SW	2	c	1	cp, c	•	65	56	—
	Parsonstown ...	30.08	65	SW	1	c	30.05	−.11	62	59	0	SE	1	0	•	c	3.9	68	55	0.02
	Valencia	30.07	66	S	2	bc	30.01	−.09	64	61	+ 3	S	1	0g	2	bcr, bc	6.8	79	59	—
	Roche's Point ...	30.12	64	SSE	2	b	30.04	−.10	63	60	+ 2	SSE	3	0	3	b	•	66	57	—
	Pembroke (St. Ann's Hd.)	30.12	64	N	1	c	30.07	−.10	64	61	+ 6	2	0	b	1	c	2.0	65	55	—
	Scilly	30.10	66	ESE	1	bc	30.05	−.07	66	63	+ 3	S	1	cw	0	c, bc	6.8	68	59	—
	Jersey (St. Aubin's) ...	30.07	72	N	3	b	30.07	−.06	67	62	0	N	1	bm	1	b	•	73	55	—
	Portland Bill ...	30.10	66	SSW	1	c	30.08	−.07	67	61	+ 2	ENE	1	b	2	c	•	70	56	—
	Dungeness	30.07	65	ENE	4	bc	30.10	−.04	65	62	− 2	ENE	3	b	2	b, bc	•	70	60	—
	London (Brixton) ...	30.08	72	ESE	2	c	30.11	−.05	67	59	+ 1	SE	1	b	•	c, 0	5.0	81	56	—
	Oxford	30.08	70	S	2	0	30.09	−.06	68	60	+ 1	S	2	b	•	c, 0, thr	•	79	59	0.09
	Yarmouth	30.11	65	SE	3	b	30.13	−.03	64	60	+ 1	SE	2	b	2	b	•	66	57	—
GERMANY	Cuxhaven	30.07	66	NNW	4	b	30.06	−.06	64	60	− 1	N	3	c	•	b	•	70	61	—
	Berlin	30.01	67	WNW	1	0	29.99	−.10	66	64	− 1	NW	1	r	•	0	•	82	63	—
	Wiesbaden	•	•	•	•	•	30.06		68	64		E	3	bc	•	•	•	79	57	—
	Munich	30.11	60	2	0	0	30.11	−.06	60	58	− 5	NW	3	0	•	0	•	77	57	0.39
FRANCE & NETHERLANDS	The Helder ...	30.11	65	N	1	b	30.12	−.03	67	61	+ 1	N	1	b	0	b	•	70	61	—
	Brussels	•	•	•	•	•	30.13	−.03	63	59	− 3	2	0	b	•	b	•	76	52	—
	C. Gris Nez ...	30.10	68	E	3	bc	30.12	−.05	66	60	+ 2	ESE	1	b	0	bc	•	68	55	—
	Paris	30.04	76	NE	2	bc	30.10	−.03	64	59	− 2	NNE	2	b	•	bc	•	81	59	—
	Brest	30.06	75	N	1	b	30.06	−.06	62	60	+ 3	2	0	b	0	b	•	75	52	—
	Lorient	30.05	70	W	2	bc	30.08	−.02	63	60	0	E	1	b	1	bc	•	82	52	—
	Rochefort	30.02	73	NW	3	0	30.04	.00	68	64	0	E	1	b	•	0	•	84	64	—
	Belfort	29.96	72	ENE	3	m	30.02		63	62		E	2	m	•	m	•	79	57	—
	Lyons	29.97	77	N	1	b	30.01	−.05	68	62	− 1	N	1	b	•	b	•	82	46	—
	Nice	29.91	67	E	5	0	29.90	−.06	72	62	− 3	2	0	b	0	0	•	84	61	0.08
	Perpignan	29.95	85	W	3	bc	29.99	−.07	78	67	+ 3	W	2	b	•	bc	•	91	69	—
	Biarritz	30.01	71	WSW	4	b	30.02	.00	68	64	− 8	SW	4	c	2	b	•	81	64	—
SPAIN & PORTUGAL	Corunna																•			
	Lisbon	29.98	82	S	1	b	29.98	−.06	68	64	− 13	SW	4	b	•	b	•	93	68	—
	Azores (P. Delgada)	30.28	71	NNE	3	0	30.23	−.04	71	69	0	NNE	4	c	3	0	•	77	68	0.02

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 7.2 *hrs.*

WEATHER CHARTS

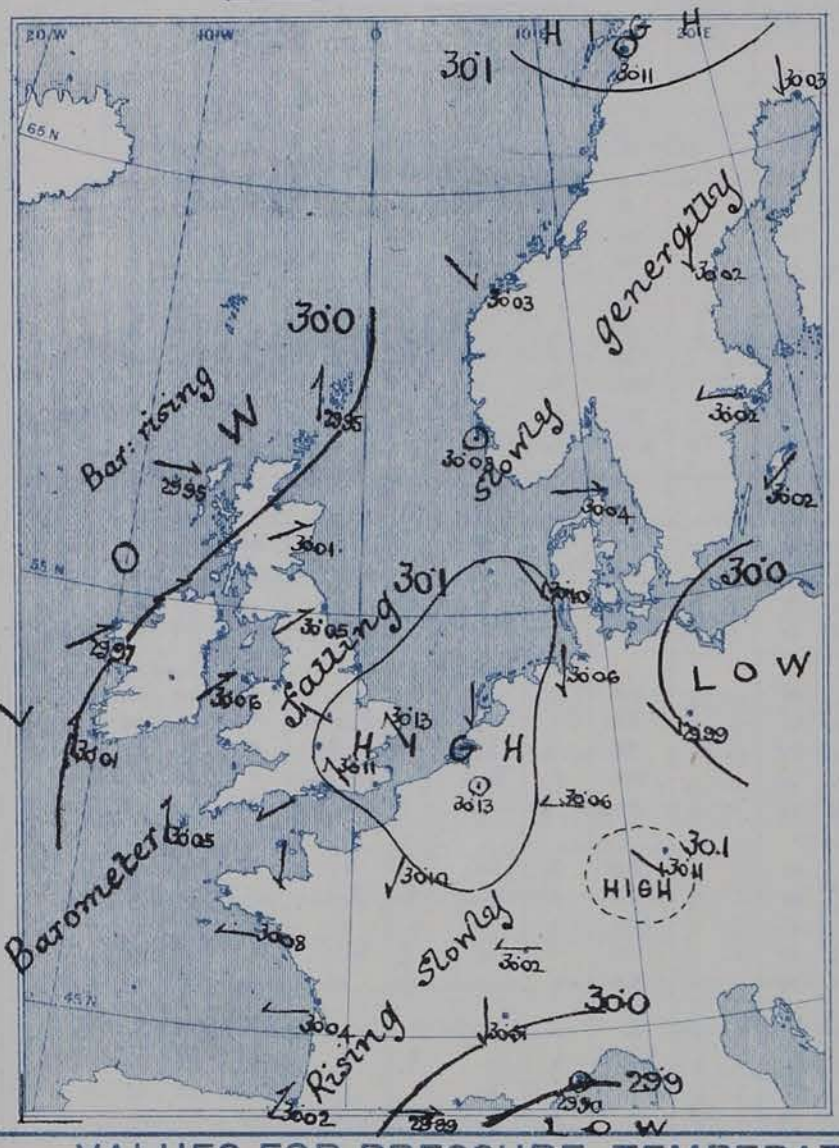
FOR Tuesday, 18th July, 1899.

BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

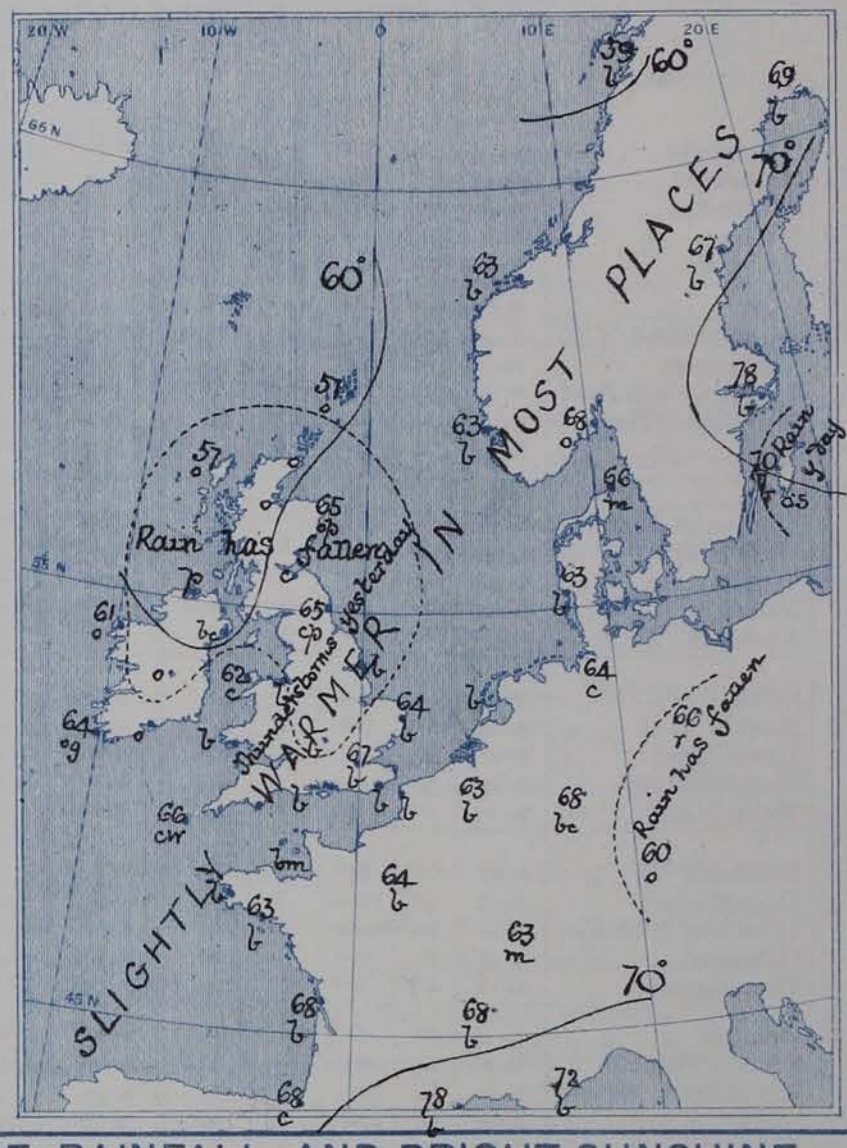
Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ : }

SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 . 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	--	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 inches and more over the southeast of England, the Netherlands and the N.ern parts of the North Sea.
Lowest below 30.0 inches off the west of Ireland and the northwest of Scotland.
Gradients were slight. Distribution was anticyclonic.
Barometer was falling a little except over the southwest of France.

TEMPERATURE

Highest (1) 78° at Perpignan, 72° at Nice, 68° at Biarritz, 67° at Portland Bill and in London; much above 60° all over England; (2) 78° at Stockholm, 70° at Wisby and much above 60° at the other Scandinavian stations.
Lowest 54° at Lerwick Head and Stornoway, 59° at Malin Head, 60° at Nairn.
The maximum readings recorded in the shade yesterday were 80° at Loughborough, 81° in London and at Paris and Biarritz, 82° at Berlin, 84° at Rochefort.

WIND

Exceedingly light and variable. Mainly from East over our southeastern districts, from South in Ireland and from west in Scotland. It was chiefly N.ly in the north of Sweden, and E.ly over France.

WEATHER

Fine over the Continent and England, dull in Ireland and Scotland, and unsettled.
Thunderstorms have occurred over the northeast and north of Great Britain, and also elsewhere but without much rain. Four tenths of an inch of rain has fallen at Munich. Bright sunshine registered yesterday was very considerable on the coasts of Sussex and Kent, but was much smaller in the west and north.

SEA

Sea was smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A further increasing of the southerly current prevalent in the west is probable; fine very warm weather is likely over England and France.

FORECASTS

For the 24 hours ending at NOON on JULY 19TH 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Varying southwest to southeast winds; cloudy, close; then showery.
1 SCOTLAND EAST	Variable airs; fair generally.
2 ENGLAND N.E.	
3 ENGLAND EAST	Same as No. 5.
4 MIDLAND COUNTIES	Same as Nos. 1 and 2. Very warm.
5 ENGLAND SOUTH	Southeasterly and Easterly breezes light; fine. Very warm.
6 SCOTLAND WEST	Same as No. 0.
7 ENGLAND N.W.	
8 ENGLAND S.W.	Southeasterly to Southwesterly winds, very light; cloudy, close, some rain.
9 IRELAND NORTH	
10 IRELAND SOUTH	
WARNINGS	None Issued.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·14	66	61	W	2	b	1
Sumburgh Head	30·02	60	58	W	1	bc	2
Stornoway... ...	29·99	60	57	SW	3	o	3
Aberdeen	30·06	66	60	S	2	bcp	1
Shields	30·14	63	60	Z	0	cp	2
Ardrossan ...							
Malin Head ...	30·06	62	61	W	4	o	2
Belmullet	30·13	64	60	SW	2	b	*
Holyhead	30·13	62	60	SW	2	cp	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	30·09	72	62	SSE	3	bcv	4
Scilly	30·10	65	61	E	2	c	1
Jersey	30·10	72	61	NW	3	b	3
Portland Bill ...	30·13	65	61	SE	1	c	1
Dungeness ...	30·10	69	65	ENE	3	b	2
North Foreland							
London (Westminster)	30·09	76	62	ESE	2	cg	*
Yarmouth ...	30·13	66	61	ESE	2	b	2
Rochefort ...	30·03	82	73	NW	1	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fair over Austria, Germany and Scandinavia as well as over the North Sea and England, dull in Ireland and the west of Scotland, showery at Holyhead. Thunderstorms and little rain later over the east of Scotland and the northern and Midland counties of England, slight rain at Stornoway and Wick, and a moderate amount at Munich.

Temperature rising generally; – Morning readings highest – (1) 80° at Constantinople, Athens and Brindisi, 81° at Lisbon and above 70° at most of the Mediterranean stations; (2) 74° to 70° over Sweden and the Baltic Provinces. Lowest 56° at Stornoway, 59° at Bodö, Sumburgh Head and Malin Head, 60° at Shields. Rising later to 80° or more over the central parts of England, to 81° at Paris and Biarritz, to 82° at Berlin and 84° at Rochefort.

Wind light and very variable; chiefly Northerly over Southeastern Europe, Easterly over Spain and the Bay of Biscay, Southerly and Southwesterly in Ireland and Scotland, Northwesterly over the south of Scandinavia. No decided change later.

Barometer highest 30·2 inches and more at Moscow and St. Petersburg, and exceeding 30·1 ins. over Scandinavia, the North Sea, England, Ireland, and the northern half of France. Lowest below 30·0 ins. off the northwest of Scotland and also over the southeast of France, and below 29·9 inches over the southeast of Europe. Falling a little later over our Islands and France.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy, h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Wednesday 19th July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M.S.L.	Change since Yesterday.	Temperature. Dry Bulb	Wet Bulb	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
SCANDINAVIA.	Haparanda	30·02	68	Z	0	c	29·99	−·04	72	64	+ 3	SW	2	b	*	c	*	77	63	—
	Hernösand	29·99	65	Z	0	b	29·98	−·04	69	63	+ 2	NE	2	bc	*	b	*	81	54	—
	Stockholm	29·99	71	Z	0	b	29·97	−·05	73	67	− 5	NNW	2	b	*	b	*	81	64	0·04
	Wisby	30·01	69	SSE	4	b	29·97	−·05	68	66	− 2	NNW	2	b	*	b	*	81	57	—
	Karlstad	29·98	72	Z	0	c	29·98	−·04	69	65	0	N	2	c	*	c	*	*	*	—
	Bodö	30·06	62	N	1	b	30·00	−·11	69	59	+ 4	ESE	2	bc	1	b	*	64	55	—
	Christiansund ...	30·02	63	Z	0	bc	30·03	·00	61	58	− 2	WNW	2	r	1	bc	*	66	57	—
	Skudesnaes ...	30·07	65	Z	0	b	30·03	−·05	65	62	+ 2	SE	2	bc	1	b	*	68	55	*
	Færder (X'iania Fjord)	29·98	70	S	2	b	29·99	−·03	67	63	− 1	NE	1	bc	1	b	*	72	64	—
	The Scaw (Skagen)	30·01	65	W	3	b	29·98	−·06	69	65	+ 3	NW	3	b	0	b	*	73	55	—
	Fanö	30·10	61	WNW	4	b	30·10	·00	64	61	+ 1	WNW	3	b	*	b	*	72	59	—
BRITISH ISLANDS.	Sumburgh Head ...	29·98	58	W	2	c	29·94	−·01	55	53	− 2	NE	1	0	3	b,c	*	62	50	—
	Stornoway	29·98	61	NW	3	c	29·94	−·01	56	54	− 1	ESE	3	0	3	c	6·3	64	49	0·03
	Wick	30·02	56	W	2	bc	29·94	−·06	54	53	− 5	NW	2	r	1	bc	*	64	52	0·03
	Nairn	29·98	63	Z	0	c	29·90	−·10	57	57	− 3	W	1	d	1	c	*	68	57	0·08
	Aberdeen	30·00	62	ESE	1	cgp	29·90	−·11	59	58	− 6	S	1	og	1	bzr, cgp	4·3	69	56	1·26
	Leith	30·00	63	Z	0	0	29·91	−·12	59	58	− 5	Z	0	r	*	0	*	69	56	0·42
	Shields	29·99	63	NNE	2	c	29·93	−·12	59	59	− 6	SSE	2	d	2	c,r	*	68	57	0·35
	Spurn Head ...	30·04	65	SE	3	bc	29·98	−·11	66	64	+ 2	SSE	4	0	3	bc,o,p	*	72	60	0·01
	Loughborough ...	30·02	76	SE	2	bc	29·98	−·12	66	61	0	S	2	c	*	bc,c,o,c	*	81	62	—
	Malin Head ...	29·96	59	E	4	r	29·89	−·13	59	59	0	Z	0	f	1	c,r	*	65	57	0·16
	Belmullet	29·95	60	WSW	1	r	29·90	−·07	61	60	0	WSW	2	om	*	om,r	*	63	58	0·40
	Donaghadee ...	29·91	60	S	3	bcp	29·91	−·13	60	59	+ 1	WSW	3	bom	2	bcp	*	64	54	0·08
	Liverpool (Bidston)	30·02	65	NW	1	0	29·95	−·13	65	61	− 2	S	1	c	1	o,r	*	71	58	0·32
	Holyhead	30·02	63	W	1	rt	29·93	−·13	60	59	− 2	SW	2	fd	1	o,rt	*	70	58	0·21
	Parsonstown ...	29·97	61	SE	1	0	29·90	−·15	63	62	+ 1	SE	1	o	*	or	1·4	66	59	0·48
	Valencia	29·94	62	S	2	rm	29·90	−·11	62	62	− 2	S	1	fd	2	op,rm	0·0	66	59	0·44
	Roche's Point ...	29·99	62	SSW	3	o	29·93	−·11	62	61	− 1	SSW	2	f	3	o,f	*	63	58	0·01
	Pembroke (St. Ann's Hd.)	30·04	64	SW	3	c	29·97	−·10	61	61	− 3	SW	3	f	1	c	6·6	68	59	—
	Scilly	30·02	66	S	1	c	29·96	−·09	63	62	− 3	WSW	1	m	0	bc,c,f	7·9	70	61	0·01
	Jersey (St. Aubin's) ...	30·04	76	NW	3	bm	29·96	−·11	72	65	+ 5	ENE	2	bm	2	bm	*	78	59	—
	Portland Bill ...	30·07	65	SE	1	b	29·99	−·09	65	62	− 2	ESE	2	b	1	b	*	69	58	—
	Dungeness	30·08	65	ENE	4	bc	30·02	−·08	66	63	+ 1	SSE	3	bc	2	b,bc	*	71	61	—
	London (Brixton) ...	30·05	77	S	3	bc	30·02	−·09	72	63	+ 5	S	2	bc	*	b,c,o	11·5	84	63	—
	Oxford	30·03	72	S	2	o	29·98	−·11	70	63	+ 2	SSE	1	b	*	c,o	*	81	62	—
	Yarmouth	30·09	66	SSE	3	b	30·04	−·09	65	61	+ 1	SSE	4	b	3	b	*	67	60	—
GERMANY.	Cuxhaven	30·07	66	NNW	3	b	30·09	+·03	64	62	0	NNW	1	b	*	b	*	68	59	—
	Berlin	29·97	68	NNW	3	c	30·04	+·05	64	61	− 2	NW	1	c	*	c	*	75	61	0·08
	Wiesbaden	*	*	*	*	*	30·09	+·03	67	62	− 1	N	3	b	*	*	*	77	57	—
	Munich	30·13	59	Z	0	c	30·15	+·04	62	58	+ 2	W	3	b	*	c	*	72	54	0·04
FRANCE & NETHERLANDS.	The Helder ...	30·11	67	Z	0	b	30·09	−·03	69	61	+ 2	SE	1	b	1	b	*	70	54	—
	Brussels	*	*	*	*	*	30·10	−·03	70	63	+ 7	SSE	1	b	*	b	*	74	55	—
	C. Gris Nez ...	30·11	66	E	1	b	30·05	−·07	68	62	+ 2	S.	2	b	1	b	*	73	59	—
	Paris	30·08	76	NE	2	b	30·06	−·04	66	60	+ 2	NNE	1	b	*	b	*	80	56	—
	Brest	30·08	70	N	1	b	29·99	−·07	63	57	+ 1	NE	1	b	0	b	*	73	55	—
	Lorient	30·04	74	W	1	b	29·93	−·15	65	63	+ 2	ENE	2	b	1	b	*	84	54	—
	Rochefort	30·04	75	NW	4	b	29·92	−·12	68	64	0	E	3	b	*	b	*	81	64	—
	Belfort	30·02	75	Z	0	bc	30·07	+·05	61	59	− 2	E	1	m	*	bc	*	80	55	—
	Lyons	30·02	78	NNE	1	b	30·01	·00	68	61	0	NNW	1	b	*	b	*	82	60	—
	Nice	29·91	73	SW	2	c	29·93	+·03	73	61	+ 1	E	2	bc	1	c	*	84	66	—
	Perpignan	29·97	86	NW	3	b	29·96	−·03	75	68	− 3	W	1	b	*	b	*	90	62	—
	Biarritz	29·99	72	N	4	b	29·78	−·24	74	68	+ 6	E	4	c	2	b	*	75	66	—
SPAN. PEN.	Corunna																*			
	Lisbon														*		*			
	Azores (P. Delgada)	30·28	70	NNE	3	b	30·26	+·03	72	68	+ 1	W	4	bc	3	b	*	79	66	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 10·5 hrs.

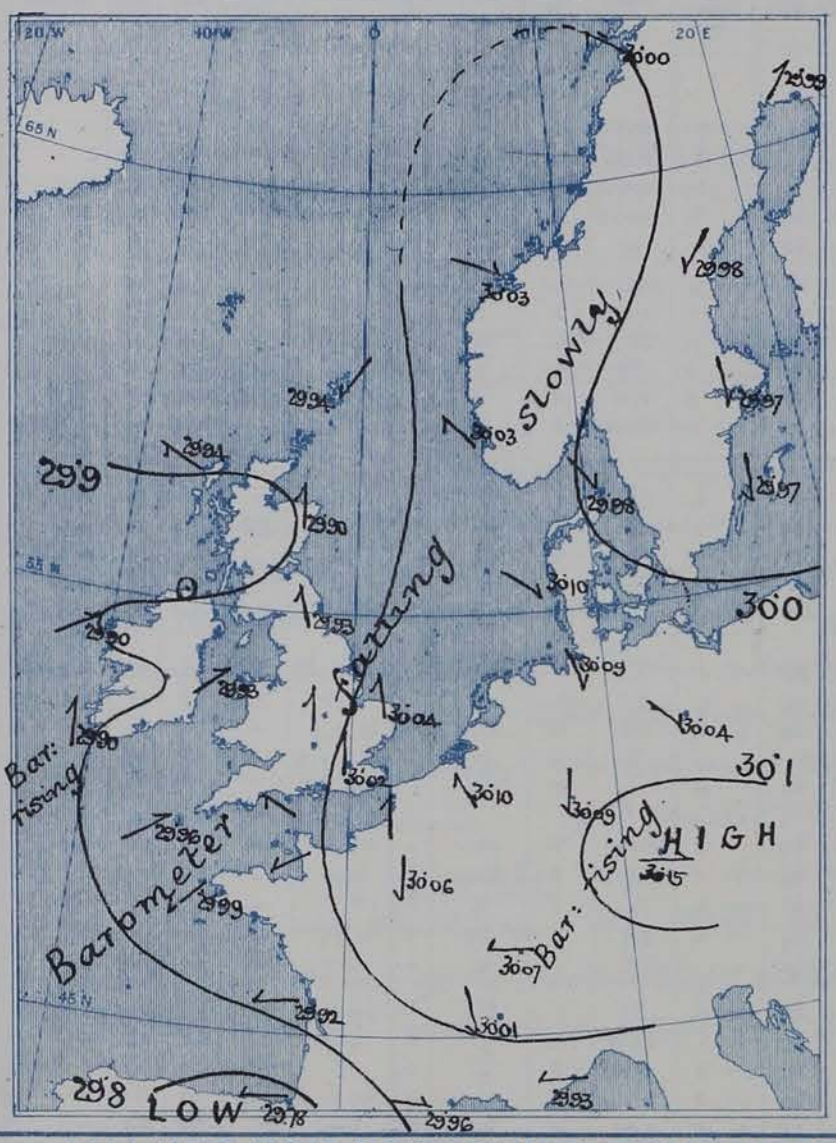
WEATHER CHARTS

FOR Wednesday, 19th July, 1899.

BAROMETER, WIND AND SEA.

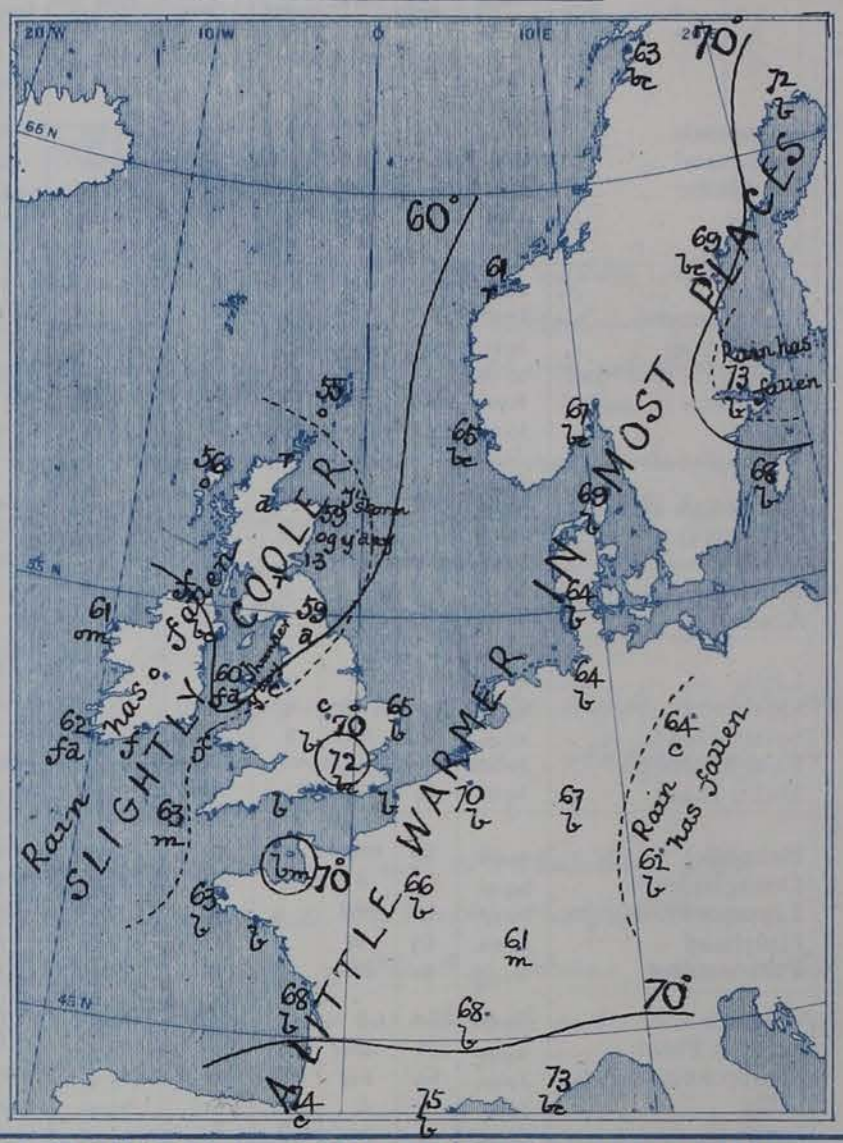
BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 : *Force 5 to 7* : } Calm⊙
Force 8 to 10 : *Force 1 to 4* : }
SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29·896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29·927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	—	—	—	—	—
Belmullet	29·889	57·5	54·9	62·2	53·8	—	—	—	—	3·59	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	2·82	—	—
Holyhead	29·909	58·1	55·8	63·7	54·2	83	1894	43	1888	2·37	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·99	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·98	136·5	27
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	4·23	153·8	31
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	3·18	—	—
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	2·53	199·7	40
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·47	—	—
Prawle Point	29·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·39	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·54	230·0	48
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·39	—	—
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·05	—	—
LONDON	29·953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·48	162·0†	33†
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·68	185·5	38
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·62	189·6	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·15 inches at Munich and exceeding 30.0 inches all over Germany, the east of France, the eastern half of the North Sea and over Norway.
Lowest below 29.0 inches over Central Scotland and the western parts of Ireland.
Gradients were slight, and were irregular in the west and north.
Barometer was falling unsteadily in our Islands, rising over Germany.

TEMPERATURE

Highest (1) 75° to 75° in the south and southwest of France, 72° in London, 70° at Oxford and Brussels; (2) 73° at Stockholm, 72° at Haparanda.
Lowest 54° at Wick, 55° at Lerwick Head, 56° at Stornoway, 59° at Aberdeen and Malin Head.
The maximum readings recorded yesterday were as high as 80° to 84° over Central England, 80° at Paris and Belfort, 84° at Lorient and Nice.

WIND

Light and anticyclonic over the continent, mainly southerly to southwesterly over our Islands, but southeast to northeast in the extreme north of Scotland and at Shetlands.
It blew very gustily from southsoutheast in London early this morning.

WEATHER

Fine and bright over the continent and England, dull and unsettled in Ireland and Scotland with rain in some places, fog in others, and in Wales.
Thunderstorms prevailed yesterday at Valeyhead and Aberdeen; the rain at the latter station exceeding an inch and a quarter. A moderate amount of rain fell in Ireland and Wales.
Bright sunshine exceeded 12 hours on our southern coasts yesterday, and 10 hours at Southport.

SEA

Smooth very generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The unsettled weather is very tardy in extending eastwards towards England — where a hot day is possible today.

FORECASTS

For the 24 hours ending at NOON on JULY 20TH 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	Varying southeast to southwest winds; unsettled, rainy, with thunder at times.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	Southerly breezes, light to moderate; fine and hot today, less fair at night.
6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	Varying southerly airs; foggy, rainy and thundery at times.
WARNINGS	None Issued.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·08	67	63	WSW	2	b	1
Sumburgh Head	29·97	60	57	WSW	3	b	3
Stornoway... ...	29·98	64	56	N	3	c	3
Aberdeen	29·99	66	61	S	2	c p	1
Shields	30·03	63	61	ESE	1	c	2
Ardrossan ...							
Malin Head ...	30·01	63	62	E.	2	c	1
Belmullet	29·99	63	60	S	1	ovr	*
Holyhead	30·05	68	61	SW	1	o	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	29·98	63	62	S	3	op	3
Scilly	30·05	69	65	SSE	1	be	0
Jersey	30·07	74	64	SW	2	b	2
Portland Bill ...	30·09	68	64	ESE	3	b	2
Dungeness ...	30·10	70	65	ENE	4	b	3
North Foreland							
London (Westminster)	30·07	78	63	S	3	c	*
Yarmouth ...	30·11	69	62	SE	3	b	2
Rochefort ...	30·05	81	72	NNW	2	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The Continental information will be issued tomorrow.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
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DAILY WEATHER REPORT

for 8 a.m. on Thursday 20th July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING (See note at bottom of last page.) Barometer At 32° Fahr. and M.S.L.	Change since Yesterday	Temperature. Dry Bulb	Wet Bulb	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall
		Ins.	°				Ins.	Ins	°	°	°									Ins.
SCANDINAVIA.	Haparanda	29.95	69	L	0	b	29.87	−.12	72	66	0	NE	2	bc	•	b	•	79	63	—
	Hernösand	30.01	65	L	0	0	29.83	−.15	68	64	−1	SW	2	bc	•	0	•	81	55	—
	Stockholm	29.95	69	L	0	bc	29.90	−.07	72	66	−1	WSW	2	c	•	bc	•	81	63	—
	Wisby	29.94	68	S	4	b	29.97	.00	68	66	0	NW	4	c	•	b	•	75	59	0.08
	Karlstad	29.93	71	S	2	b	29.90	−.08	66	62	−3	WSW	4	c	•	b,r	•	•	•	—
	Bodö	29.90	63	L	0	b	29.78	−.22	66	54	+3	E	4	b	1	b	•	66	55	—
	Christiansund ...	29.89	63	WNW	2	bc	29.90	−.13	56	53	−5	WNW	5	0	4	bc	•	64	54	0.83
	Skudesnaes* ...	29.91	63	W	6	0	30.04	+.01	60	58	−5	NNW	6	bc	3	r,c	•	64	57	•
	Færder (X'iania Fjord)	29.91	72	SW	4	0	29.88	−.11	67	62	0	SW	6	0	3	c	•	73	64	—
	The Scaw (Skagen)	30.01	65	W	4	m	30.00	+.02	64	61	−5	W	4	m	1	m	•	73	61	0.04
	Fanö	30.08	64	L	0	c	30.07	−.03	67	63	+3	WSW	3	c	•	c	•	73	63	—
BRITISH ISLANDS	Sumburgh Head ...	29.94	54	NW	2	0	30.11	+.17	55	53	0	NW	3	b	3	c	•	57	48	0.03
	Stornoway	30.01	64	ENE	3	b	30.16	+.22	60	55	+4	ENE	2	0	2	c,b	8.6	65	47	—
	Wick	30.00	51	NW	1	0	30.16	+.22	57	54	+3	N	1	0	1	0	•	58	40	0.10
	Nairn	30.02	56	E	1	0	30.17	+.27	57	54	0	L	0	bc	1	0	•	57	43	0.09
	Aberdeen	29.99	55	NW	4	ogq	30.16	+.26	60	54	+1	SW	3	bc	1	gp,ogq	0.5	65	51	0.08
	Leith	29.94	66	WNW	3	c	30.15	+.24	56	54	−3	ENE	3	0	•	c	•	70	54	—
	Shields	29.94	64	SW	2	r	30.07	+.14	59	59	0	N	3	0	2	ow,r	•	67	57	0.11
	Spurn Head ...	29.93	68	L	0	c	30.02	+.04	61	60	−5	NNE	4	c	3	c,r	•	79	59	0.15
	Loughborough ...	29.91	80	WSW	1	bc	30.02	+.04	68	62	+2	NE	3	b	•	c,bo,o,c	•	85	61	—
	Malin Head ...	29.98	58	E	4	c	30.09	+.20	56	55	−3	N	5	0	4	f,c	•	61	55	—
	Belmullet	29.96	60	ENE	3	0	30.09	+.19	59	55	−2	ENE	4	b	•	0	•	62	54	—
	Donaghadee ...	29.97	60	NNE	1	cg	30.06	+.15	57	56	−3	NE	3	cg	3	cg	•	64	54	—
	Liverpool (Bidston)	29.97	64	WNW	1	bc	30.00	+.05	68	62	+3	NE	3	b	2	bc	•	70	59	—
	Holyhead	29.96	63	SW	1	c	29.99	+.06	61	60	+1	ENE	2	of	1	c	•	67	57	—
	Parsonstown ...	29.92	67	W	1	r	30.01	+.11	62	60	−1	NW	1	0	•	r	0.5	71	60	0.66
	Valencia	29.94	63	W	1	0	29.95	+.05	65	64	+3	ENE	3	0	3	0	0.1	65	61	0.01
	Roche's Point ...	29.94	62	S	2	f	29.95	+.02	65	62	+3	ENE	3	0	3	f	•	65	59	—
	Pembroke (St. Ann's Hd.)	29.94	63	NW	3	bc	29.95	−.02	65	63	+4	E	3	og	0	bc	6.5	65	59	0.01
	Scilly	29.91	65	NNW	1	c	29.79	−.17	64	62	+1	NNE	4	o	0	c,bl	2.1	71	61	0.01
	Jersey (St. Aubin's) ...	29.87	80	ENE	3	om	29.84	−.12	70	64	−2	E	4	om	3	bm	•	83	59	—
	Portland Bill ...	29.93	70	ESE	2	b	29.92	−.07	69	64	+4	E	3	bc	2	b	•	72	62	—
	Dungeness	29.94	70	ENE	2	b	29.96	−.06	69	65	+3	ENE	3	b	2	b	•	76	62	—
	London (Brixton) ...	29.93	82	SSE	3	b	29.97	−.05	77	66	+5	ENE	2	b	*	bc,b	12.4	87	62	—
	Oxford	29.91	76	S	2	b	29.95	−.03	76	65	+6	NE	1	b	*	b	•	84	60	—
	Yarmouth	29.97	68	SSE	3	b	29.99	−.05	66	63	+1	S	1	b	2	b	•	69	62	—
GERMANY.	Cuxhaven	30.06	68	NNW	2	b	30.07	−.02	66	63	+2	S	1	b	•	b	•	70	59	—
	Berlin	30.06	72	NW	1	b	30.12	+.08	66	61	+2	L	0	b	•	b	•	77	61	—
	Wiesbaden	•	•	•	•	•	30.07	−.02	69	63	+2	NE	3	b	•	•	•	77	59	—
	Munich	30.11	63	SE	1	b	30.15	.00	63	60	+4	E	3	b	•	b	•	73	50	—
FRANCE & NETHERLANDS.	The Helder ...	30.01	72	ESE	1	b	30.02	−.07	75	68	+6	L	0	b	0	b	•	77	61	—
	Brussels	•	•	•	•	•	30.01	−.09	75	65	+5	ESE	1	b	•	b	•	79	60	—
	C. Gris Nez ...	30.15	73	E	1	b	29.99	−.06	73	66	+5	SE	1	b	1	b	•	79	64	—
	Paris	29.97	79	E	1	b	29.94	−.12	70	62	+4	E	1	b	•	b	•	84	58	—
	Brest	29.87	77	N	1	c	29.75	−.24	70	64	+7	E	1	c	1	c	•	82	59	—
	Lorient	29.78	80	L	0	c	29.79	−.14	70	69	+5	SE	3	c	2	c	•	91	57	—
	Rochefort	29.78	88	E	3	bc	29.85	−.07	70	68	+2	SW	3	0	•	bc	•	99	66	—
	Belfort	29.92	73	NE	4	m	29.98	−.09	65	60	+4	NE	5	m	•	m	•	77	57	—
	Lyons	29.91	80	NNE	1	b	29.97	−.04	70	63	+2	S	1	b	•	b	•	84	60	—
	Nice	29.93	76	SW	2	b	30.04	+.11	70	65	−3	SSW	1	b	0	b	•	86	64	—
	Perpignan	29.87	78	E	2	bc	29.95	−.01	71	68	−4	W	2	0	•	bc	•	84	64	—
	Biarritz	29.71	71	WSW	6	0	29.83	+.05	72	68	−2	L	0	b	2	o,bl	•	90	68	—
SPAN. PEN.	Corunna																•			
	Lisbon	30.02	68	WNW	4	0	30.02	+.04	69	65	0	SSW	3	bc	•	0	•	73	64	—
	Azores (P. Delgada)	30.26	70	NNE	4	0	30.25	−.01	68	63	−4	NNW	4	0	3	0	•	79	66	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 7·0 *hrs.*

WEATHER CHARTS

FOR Thursday, 20th July, 1899.

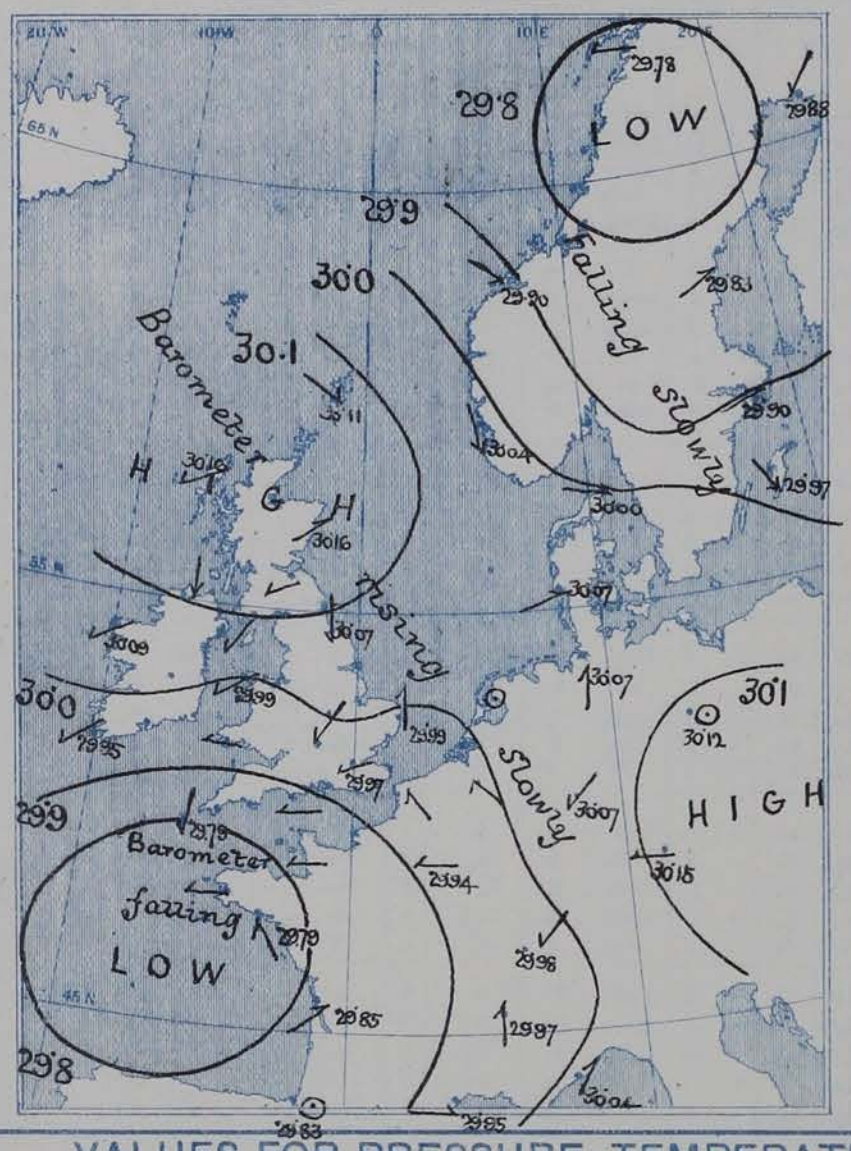
BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ : }

SEA.—Rough : *High*

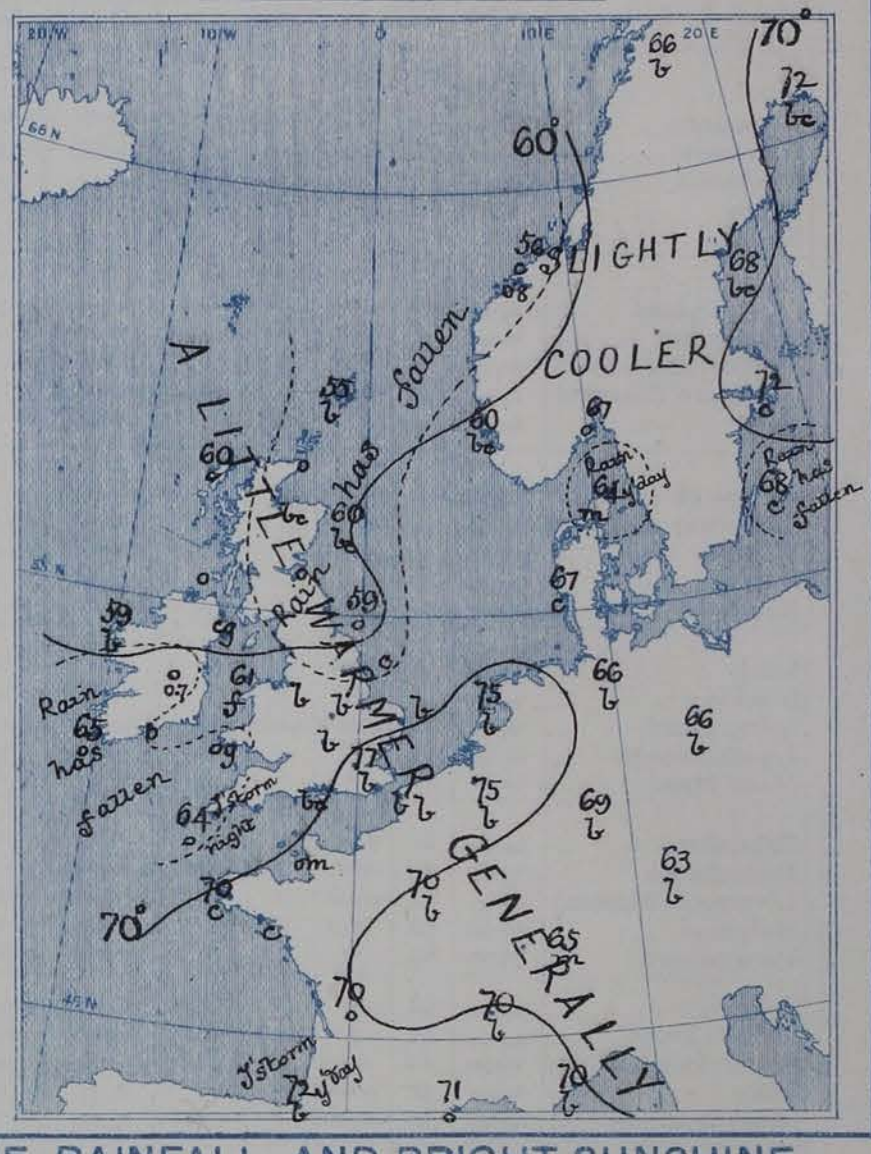


TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR, 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 . 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 inches and more both over Scotland, and over Germany.
Lowest 29.8 inches and less over the northern parts of Scandinavia, and also over Brittany.
Gradients were slight.
Barometer rising both in Germany and Scotland, falling in Norway and the northwest of France.

TEMPERATURE

Highest 77° in London, 76° at Oxford, 70° to 75° over France, 69° at Portland Bill, 68° at Liverpool; 72° at Stockholm.
Lowest 56° at Malin Head, 57° to 60° over Scotland, 59° at Shields.
The maximum readings recorded during yesterday were 87° in London, 85° at Loughborough, 84° at Oxford; 84° at Paris and Nice, 99° at Rochefort. In the night the thermometer went down to between 45° and 50° at the Scotch stations, but to 61° only in London.

WIND

Light generally — mainly from Northeast and East over our Islands, Easterly in the north of France, Southwesterly in the southwest and south. It had become strong from Northwest and West in Norway, light from Southwest in the south of Sweden.

WEATHER

Fine generally over our Islands and France, cloudy or overcast in various parts of Norway.
A little rain had fallen in Scotland and Ireland generally, but a considerable amount at Stornoway; thunder and lightning had occurred at Scilly, and at Biarritz.
Bright sunshine yesterday exceeded 12 hours over the southeast and south of England, but was only 7 hours at Southport, and still less over Ireland and Scotland.

SEA

Slight to smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on JULY 21ST 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Varying and Northeasterly breezes, light; fine.
1 SCOTLAND EAST	
2 ENGLAND N.E.	
3 ENGLAND EAST	Same as No. 5.
4 MIDLAND COUNTIES	Same as Nos. 0 to 2.
5 ENGLAND SOUTH	Northeasterly winds, light to moderate; fine.

DISTRICTS.	FORECASTS.
6 SCOTLAND WEST	Northeasterly winds, light to moderate; fine.
7 ENGLAND N.W.	
8 ENGLAND S.W.	
9 IRELAND NORTH	
10 IRELAND SOUTH	
WARNINGS	None Issued.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29.99	64	61	SW	2	r	1
Sumburgh Head	29.92	55	53	NW	2	o	3
Stornoway... ...	29.98	63	56	ENE	3	c	3
Aberdeen	29.92	61	59	NW	3	ogp	1
Shields	29.93	66	63	WSW	1	ou	2
Ardrossan ...							
Malin Head ...	29.93	58	57	E	4	f	2
Belmullet	29.98	62	61	WSW	2	o	*
Holyhead	29.95	66	64	SW	3	c	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	29.93	64	62	WSW	2	o	3
Scilly	29.96	69	65	ESE	1	c	0
Jersey	29.95	78	66	E	1	bm	1
Portland Bill ...	29.96	68	64	ESE	3	b	2
Dungeness ...	29.99	75	72	ESE	2	b	1
North Foreland							
London (Westminster)	29.95	83	67	ESE	3	bc	*
Yarmouth ...	29.99	68	64	SSE	4	b	3
Rochefort ...	29.88	97	79	ESE	3	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine over the greater part of Continental Europe, and over England; dull and somewhat raining over Ireland, Scotland, the north of England and Norway, foggy on the coasts of Wales and the south of Ireland. Rain continuing later at intervals in the west and north of our Islands and in Norway. Thunderstorms reported at Scilly and Biarritz, dense wet fog at Roche's Point.

Temperature rising over Central Europe, France and England; falling a little in Scotland. Morning readings highest:- (1) 79° at Lisbon, 78° at Patras and Brindisi and considerably above 70° at most of the Mediterranean stations; (2) 74° at Kuopio, 73° at Stockholm and Helsingfors, 72° at Hangö and Haparanda. Lowest below 60° all over Scotland and the extreme north of Ireland, 59° at Shields, 60° at Holyhead. Rising later to 84° in London, 85° at Loughborough and much above 80° over England and France generally, to 86° at Nice and to 99° at Rochefort.

Wind extremely variable in different parts of Europe – light and anticyclonic in most places, but cyclonic over the Spanish Peninsula, Ireland and Scotland and over southeastern Europe. A strong Southwesterly breeze spreading over Portugal and Biarritz later.

Barometer Highest, (1) 30.15 inches at Munich, and exceeding 30.0 inches in an anticyclone extending over eastern France, western Germany, the Netherlands and Norway; (2) exceeding 30.1 inches over the northeast of Russia. Lowest, below 29.9 inches over Scotland and the west of Ireland; (2) below 29.8 inches over Greece. Rising later over Ireland and Scotland, and a new anticyclone appearing in the north; falling in Spain and the southwest of France and a shallow depression appearing near Bilbao.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Friday 21st July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb	Temperature. Wet Bulb	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
SCANDINAVIA	Haparanda	29.67	67	2	0	bc	29.58	−.00	63	61	− 9	2	0	0	*	bc	*	77	63	—
	Hernosand	29.78	58	NW	4	bc	29.87	+.04	58	50	− 10	NW	6	b	*	bc	*	73	55	0.75
	Stockholm	29.88	64	W	2	c	30.01	+.11	65	57	− 7	2	0	b	*	c	*	77	63	—
	Wisby	29.97	68	W	4	b	30.01	+.04	65	61	− 3	NW	4	b	*	b	*	73	59	—
	Karlstad	29.91	67	NE	2	b	29.94	+.04	64	60	− 2	S	4	c	*	b	*	*	*	—
	Bodo	29.75	55	SW	6	0	29.79	+.01	57	53	− 9	2	0	c	1	0	*	66	52	0.39
	Christiansund ...	30.00	54	WNW	6	r	30.01	+.11	50	48	− 6	W	5	r	4	r	*	56	50	0.83
	Skudesnaes ...	30.14	58	NNW	2	b	30.15	+.11	58	51	− 2	NNE	4	b	1	b	*	63	52	*
	Fardar (X'iania Fjord)	29.91	71	NNW	4	b	29.99	+.04	63	53	− 4	NW	4	b	2	b	*	72	57	—
	The Scaw (Skagen)	29.99	64	W	3	b	30.02	+.02	65	57	+ 1	NNW	2	bc	0	b	*	72	59	—
	Fanö	30.09	61	NW	3	b	30.12	+.05	62	57	− 5	NW	2	c	*	b	*	72	59	—
BRITISH ISLANDS	Sumburgh Head ...	30.16	57	WNW	2	b	30.14	+.03	55	52	0	2	0	0	1	o, b	*	59	45	—
	Stornoway	30.17	62	ENE	3	c	30.11	−.05	59	57	− 1	NE	1	0	1	ov, c	5.0	62	49	—
	Wick	30.20	51	N	1	bc	30.17	+.01	58	54	+ 1	S	2	bc	1	bc	*	63	42	—
	Nairn	30.16	62	2	0	bc	30.14	−.03	60	57	+ 3	2	0	b	0	bc	*	63	47	—
	Aberdeen	30.20	56	E	2	bc	30.17	+.01	58	56	− 2	E	2	c	1	bc	9.0	62	50	—
	Leith	30.17	57	ENE	3	0	30.14	−.01	57	56	+ 1	ENE	2	r	*	o	*	59	54	0.03
	Shields	30.12	59	NE	3	o	30.12	+.05	57	57	− 2	NE	3	o	3	ofd, o, r	*	61	54	0.39
	Spurn Head ...	30.05	60	NE	5	c	30.06	+.04	62	59	+ 1	NE	4	c	4	c	*	67	57	—
	Loughborough ...	30.02	70	NE	3	bc	30.05	+.03	62	61	− 6	ENE	3	ogm	*	bc, ogm	*	79	61	—
	Malin Head ...	30.12	60	E	4	bc	30.08	−.01	57	56	+ 1	E	4	o	2	bc	*	61	55	—
	Belmullet	30.13	61	NE	4	bc	30.05	−.04	61	59	+ 2	NNE	2	o	*	b, bc	*	62	56	—
	Donaghadee ...	30.09	56	NNE	4	og	30.07	+.01	56	56	− 1	NE	3	op	3	o	*	58	53	0.05
	Liverpool (Bidston)	29.99	67	NE	4	c	30.04	+.04	62	59	− 6	ENE	1	o	2	cm, 2	*	72	59	0.02
	Holyhead	30.01	61	ESE	3	bg	30.03	+.04	62	61	+ 1	2	0	o	0	gf, bgr	*	68	58	3.36
	Parsonstown ...	30.01	62	E	1	r	30.01	.00	60	58	− 2	NW	1	rtm	*	or	0.8	68	59	0.24
	Valencia	29.93	67	NE	4	og	29.98	+.03	63	62	− 2	2	0	bpg	4	o, og	0.1	67	62	0.20
	Roche's Point ...	29.92	70	ENE	3	b	29.99	+.04	62	61	− 3	ENE	2	f	2	b, f	*	70	59	0.10
	Pembroke (St. Ann's Hd.)	29.89	67	NE	4	c	30.03	+.08	63	62	− 2	SW	2	o	2	c	5.4	75	60	—
	Scilly	29.87	67	ESE	2	c	29.98	+.19	67	65	+ 3	SSW	2	c	0	o, c	10.2	71	62	—
	Jersey (St. Aubin's) ...	29.90	76	SW	3	bm	30.07	+.23	71	65	+ 1	ENE	1	bm	1	bm	*	83	57	—
	Portland Bill ...	29.90	68	ESE	4	o	30.05	+.13	63	61	− 6	W	3	c	2	c, o	*	73	57	—
	Dungeness	29.92	68	ENE	3	bc	29.97	+.01	69	66	0	WSW	3	b	2	c, bc, 2	*	76	63	—
	London (Brixton) ...	29.95	79	E	4	c	30.01	+.04	69	58	− 8	WNW	2	b	*	b, bfp	9.5	89	63	0.02
	Oxford	29.94	73	NE	1	bc	30.02	+.07	65	62	− 11	NE	1	o	*	bc, p	*	86	59	—
	Yarmouth	30.00	70	E	3	b	30.00	+.01	64	63	− 2	ENE	4	f	3	b	*	72	60	—
GERMANY.	Cuxhaven	30.04	73	N	1	b	30.08	+.01	64	60	− 2	NE	3	b	*	b	*	77	61	—
	Berlin	30.07	77	2	0	b	30.11	−.01	71	62	+ 5	WSW	1	b	*	b	*	82	64	—
	Wiesbaden	*	*	*	*	*	30.08	+.01	70	64	+ 1	NE	2	b	*	*	*	82	59	—
	Munich	30.12	67	E	1	b	30.21	+.06	68	64	+ 5	SW	1	b	*	b	*	77	55	—
FRANCE & NETHERLANDS.	The Helder ...	30.09	71	NE	1	b	30.00	−.02	70	67	− 5	ENE	2	b	1	b	*	79	66	—
	Brussels	*	*	*	*	*	30.01	.00	75	68	0	SW	2	b	*	b	*	84	66	—
	C. Gris Nez ...	29.97	73	E	1	m	30.00	+.01	66	64	− 7	SW	1	m	1	m	*	81	63	—
	Paris	29.92	86	SE	2	b	30.08	+.14	72	64	+ 2	NW	2	b	*	b	*	89	62	—
	Brest	29.92	66	S	3	o	30.00	+.25	63	62	− 7	E	1	r	2	o	*	77	59	—
	Lorient	30.01	72	SW	2	c	30.01	+.22	63	61	− 7	E	3	r	3	c	*	82	63	0.04
	Rochefort	29.99	73	NW	3	b	29.96	+.11	70	64	0	E	4	bc	*	b	*	88	64	—
	Belfort	29.93	80	E	1	m	30.07	+.09	71	63	+ 6	WSW	2	m	*	m	*	84	64	—
	Lyons	29.97	82	S	1	c	30.08	+.11	71	63	+ 1	SSE	1	b	*	c	*	87	63	—
	Nice	30.06	75	SW	2	b	30.11	+.07	74	66	+ 4	2	0	b	0	b	*	86	66	—
	Perpignan	29.96	76	NE	2	bc	30.07	+.12	72	69	+ 1	SW	1	b	*	bc	*	82	61	—
	Biarritz	29.89	74	NNE	4	b	29.86	+.03	73	66	+ 1	ESE	2	b	1	b	*	79	66	—
SPAN. PEN.	Corunna																*			
	Lisbon														*		*			
	Azores (P. Delgada)	30.25	68	N	4	c	30.17	−.08	70	64	+ 2	NNE	4	bc	2	c	*	75	64	0.08

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 3.6 *hrs.*

WEATHER CHARTS

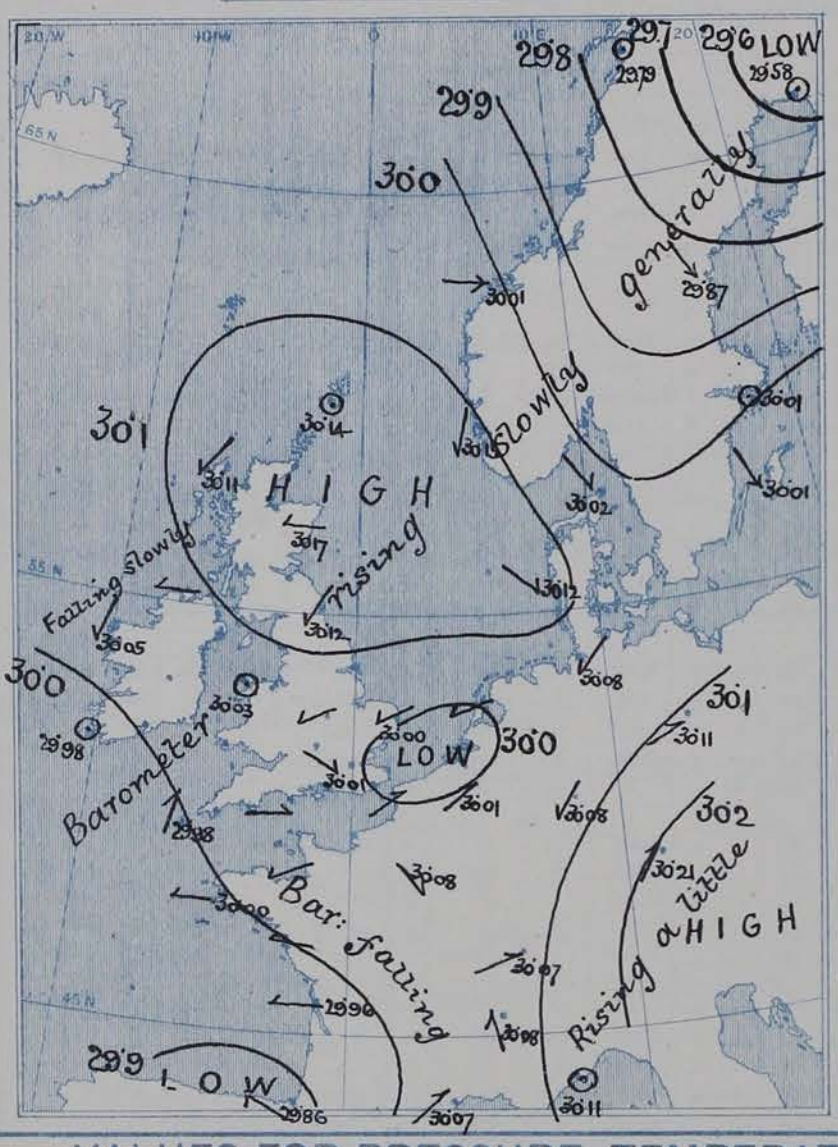
FOR Friday 21st July, 1899.

BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

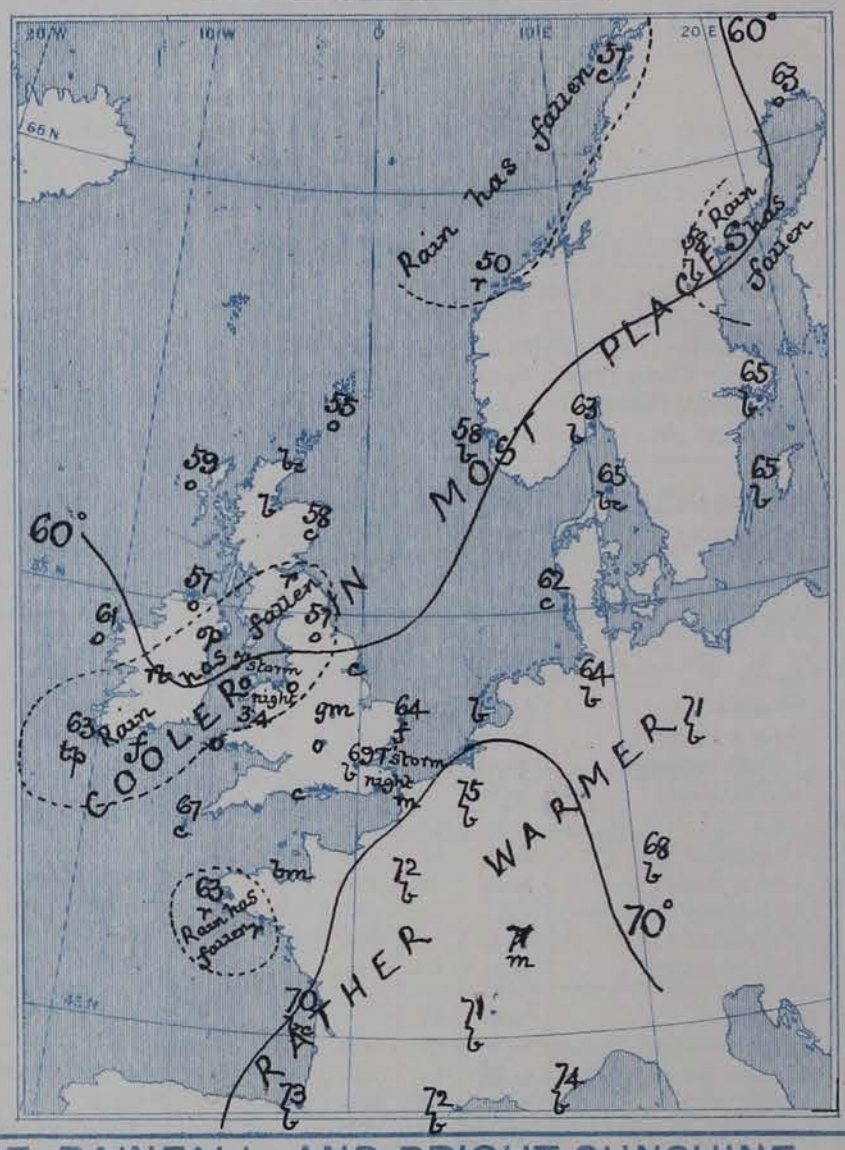
Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm⊙
Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ : }

SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR, 1871–95. Means of				Absolute Extremes.				RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum.	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29·896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29·927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	—	—	—	—	—
Belmullet	29·889	57·5	54·9	62·2	53·8	—	—	—	—	3·59	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	2·82	—	—
Holyhead	29·909	58·1	55·8	63·7	54·2	83	1894	43	1888	2·37	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·99	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·98	136·5	27
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	4·23	153·8	31
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	3·18	—	—
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	2·53	199·7	40
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·47	—	—
Prawle Point	29·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·39	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·54	230·0	48
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·39	—	—
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·05	—	—
LONDON	29·953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·48	162·0†	33†
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·68	185·5	38
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·62	189·6	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest (1) 30.2 inches at Munich and above 30.1 inches all over Germany and the Riviera, (2) 30.1 inches and more over Scotland and the southwest of Norway.

Lowest (1) Below 29.6 inches over Lapland; (2) below 29.9 inches in the southwest of France; (3) below 30.0 inches over the southeast of England.

Gradients were slight. Distribution complex, though anticyclonic conditions were mainly prevalent.

Barometer rising slightly in London, falling over the Bay of Biscay, and also in the north of Scandinavia

TEMPERATURE

Highest 74° to 72° in the south of France, 72° at Paris, 71° at Jersey, 69° in London.

Lowest 50° at Christiansund, 55° at Dumbuigh Head, 57° at Leith and Malin Head.

The maximum readings recorded yesterday were 89° in London, 86° at Oxford, 83° at Jersey; 89° at Paris, 84° at Belfort, 86° at Nice

WIND

Very light in force and extremely variable in direction; mainly Northeasterly on our northeast coasts, and in the west of France.

In London the wind, which was Easterly yesterday, has shifted to the Westward.

WEATHER

Varies greatly in different parts of our area. Fine in London, foggy at Yarmouth, and at Roche's Point. Thunderstorms were in progress over various parts of Ireland, and a slight one occurred in the south of London at about 3 a.m. Lightning at Dungeness. Very heavy rain (3·36 ins:) has fallen at Holyhead. Bright sunshine recorded yesterday varied from 10 to 13 hours on our southern coasts, to 9 hours at Aberdeen, and to hardly any in Ireland.

SEA

Moderate at Valencia, slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No very decided change of weather is probable over England at present.

FORECASTS

For the 24 hours ending at NOON on JULY 22ND 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Same as Nos: 6 to 10.	6 SCOTLAND WEST	Very light and variable breezes; fine in most places, but with local thunderstorms in the west.
1 SCOTLAND EAST	Very light and variable breezes; fine in most places.	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	None Issued.

Note.—The **South Cone,** *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·12	62	55	NNW	4	b	2
Sumburgh Head	30·16	57	55	WNW	2	o	3
Stornoway... ...	30·18	59	55	E	2	ov	2
Aberdeen	30·20	60	54	E	3	bc	2
Shields	30·13	59	59	NE	1	opd	2
Ardrossan ...							
Malin Head ...	30·12	60	60	NNE	3	c	2
Belmullet	30·06	62	58	NNE	4	b	*
Holyhead	29·97	67	65	ENE	3	ogf	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	29·95	67	64	NE	5	o	5
Scilly	29·82	68	65	E	4	o	1
Jersey	29·86	78	69	ESE	3	b	3
Portland Bill ...	29·90	73	66	ESE	4	c	3
Dungeness ...	29·93	74	68	ENE	4	c	3
North Foreland							
London (Westminster)	29·95	83	68	E	4	c	*
Yarmouth ...	30·00	72	65	E	2	b	2
Rochefort ...	29·96	80	70	NW	3	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright over the greater part of the Continent and our Islands, but dull and unsettled looking at our southwestern stations, on our northeast coast and in some parts of Norway. Thunder, lightning and a little rain later over the southeast of England, in Ireland and some parts of Wales; exceedingly heavy rain (3·36 ins.) at Holyhead locally.

Temperature rising, except over Scandinavia. Highest morning readings (1) 81° at Barcelona, 70° to 75° at the other Mediterranean stations; 77° in London, 76° at Oxford, 75° at the Helder and above 60° except in the extreme north and northwest. Lowest 55° at Archangel and at Sumburgh Head, 56° at Malin Head, 57° at Wick, Nairn and Donaghadee, 59° at Shields. Rising later to 83° at Jersey, 86° at Oxford, 89° in London; to 89° at Paris, 88° at Rochefort, 86° at Nice.

Wind chiefly Easterly to Northeasterly over our Islands and the Channel, Southerly over Portugal and Spain; very variable over the Continent. The Southerly wind (veering to West) spreading to our southeastern counties at night, and wind becoming very variable over our Islands generally.

Barometer in morning — highest 30·1 inches and more both over Scotland and Germany. Lowest 29·8 inches and less both over the Bay of Biscay and the north of Scandinavia, 29·8 inches and less over Turkey in Asia. Changing later both little and irregularly; depression over the Bay of Biscay moving northwards, and beginning to fill up.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain, f. fog; g dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Saturday 22nd July. 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb	Temperature. Wet Bulb	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
SCANDINAVIA	Haparanda	29.65	58	WSW	2	o	29.74	+ ·16	59	53	− 4	SW	2	o	*	o	*	68	57	0.04
	Hernösand	29.88	60	W	2	b	29.82	− ·05	53	50	− 5	WNW	6	r	*	b	*	72	50	0.04
	Stockholm	29.93	61	E	0	c	29.98	− ·03	59	53	− 6	WNW	4	b	*	c	*	73	59	0.47
	Wisby	29.95	68	WNW	6	c	30.04	+ ·03	59	53	− 6	SW	6	b	*	c	*	73	59	—
	Karlstad	30.00	57	NW	2	c	30.10	+ ·16	56	49	− 8	NNW	2	b	*	c	*	*	*	—
	Bodö	29.86	54	E	0	o	29.91	+ ·12	55	53	− 2	W	4	o	2	o	*	57	52	0.47
	Christiansund ...	30.09	53	WNW	6	o	30.12	+ ·11	57	54	+ 7	WNW	5	o	4	o	*	57	50	0.24
	Skudesnaes ...	30.17	58	NNW	2	bc	30.19	+ ·04	59	52	+ 1	N	2	b	1	b.bc	*	63	52	*
	Færder (Christiania Fjord)	29.99	69	NW	4	b	30.12	+ ·13	60	54	− 3	NE	2	bc	1	b	*	68	59	—
	The Scaw (Skagen)	30.03	63	NW	1	c	30.11	+ ·09	64	57	− 1	E	2	b	0	c	*	68	59	—
	Fanö	30.15	58	N	1	b	30.15	+ ·03	60	55	− 2	NNW	4	b	*	b	*	73	60	—
BRITISH ISLANDS	Sumburgh Head ...	30.13	58	WSW	1	o	30.10	− ·04	57	57	+ 2	E	0	o	1	o	*	61	53	—
	Stornoway	30.11	63	ESE	1	o	30.13	+ ·02	59	57	0	E	0	bc	0	c.o	5.5	67	46	—
	Wick	30.13	56	S	2	b	30.15	− ·02	63	59	+ 5	S	1	b	0	b	*	65	50	—
	Nairn	30.09	70	E	1	bc	30.16	+ ·02	60	55	0	E	0	b	1	bc	*	70	48	—
	Aberdeen	30.16	58	S	2	o	30.16	− ·01	61	58	+ 3	S	2	c	1	c.o	0.8	62	56	—
	Leith	30.12	60	E	0	o	30.13	− ·01	60	58	+ 3	ENE	1	c	*	o	*	62	55	—
	Shields	30.13	60	E	2	c	30.14	+ ·02	61	59	+ 4	E	3	c	3	p.c	*	64	55	—
	Spurn Head ...	30.08	60	NE	5	o	30.07	+ ·01	60	58	− 2	ENE	5	o	4	o	*	66	57	—
	Loughborough ...	30.06	66	N	1	o	30.06	+ ·01	60	60	− 2	ENE	2	omgpd	*	gm,mdp	*	67	60	—
	Malin Head ...	30.07	60	E	4	c	30.08	·00	57	57	0	E	4	f	*	b.c	*	63	56	—
	Belmullet	30.04	65	ENE	3	bc	30.06	+ ·01	62	61	+ 1	ENE	1	of	*	o.bc	*	67	57	—
	Donaghadee ...	30.08	58	N	2	o	30.09	+ ·02	58	57	+ 2	NNE	3	om	2	o	*	60	54	0.01
	Liverpool (Bidston)	30.05	66	ESE	1	om	30.05	+ ·01	62	58	0	ENE	2	o	?	om	*	66	58	—
	Holyhead	30.05	65	NW	1	om	30.03	·00	61	60	− 1	ENE	3	of	2	ogm	*	65	58	—
	Parsonstown ...	30.02	67	NE	1	r	30.04	+ ·03	60	59	0	NE	1	f	*	o.r	0.5	68	59	0.11
	Valencia	30.02	65	E	0	c	30.02	+ ·04	64	62	+ 1	W	1	bm	2	om.c	1.0	66	54	0.02
	Roche's Point ...	30.04	68	ENE	2	b	30.02	+ ·03	62	60	0	ENE	1	bc	2	f.b.f	*	68	58	—
	Pembroke (St. Ann's Hd.)	30.05	67	NW	2	bc	29.99	− ·04	64	62	+ 1	SE	2	og	2	bc	5.5	68	60	—
	Scilly	30.02	66	E	1	c	29.92	− ·06	66	63	− 1	NE	3	om	0	c	9.3	71	61	—
	Jersey (St. Aubin's) ...	29.99	69	ESE	4	cg	29.92	− ·15	70	56	− 1	E	3	b	3	o.blr	*	72	62	0.39
	Portland Bill ...	30.05	63	E	0	o	29.95	− ·10	65	64	+ 2	E	3	o	3	c.o.blr	*	69	59	0.27
	Dungeness	30.02	66	WSW	3	c	?29.97	·00	63	63	− 6	ENE	4	c	3	bc.c.l	*	72	61	0.19
	London (Brixton) ...	29.99	84	NW	1	bc	30.00	− ·01	65	64	− 4	NE	2	om	*	b.ol.r	9.3	89	64	0.04
	Oxford	30.03	71	NE	2	bc	30.01	− ·01	63	62	− 2	NE	2	r	*	bc.o	*	82	60	0.03
	Yarmouth	30.01	66	ENE	3	b	30.01	+ ·01	64	62	0	ENE	4	bom	4	b	*	68	60	—
GERMANY	Cuxhaven	30.06	68	N	3	b	30.12	+ ·04	60	56	− 4	NNE	3	b	*	b	*	77	59	—
	Berlin	30.04	80	E	0	b	30.03	− ·08	73	65	+ 2	NNE	1	b	*	b	*	86	68	—
	Wiesbaden	*	*	*	*	*	30.11	+ ·03	73	68	+ 3	SW	3	b	*	*	*	84	61	—
	Munich	30.20	70	SE	1	bc	30.21	·00	73	66	+ 5	SW	2	b	*	bc	*	81	61	—
FRANCE & NETHERLANDS.	The Helder ...	30.00	70	NE	2	b	30.03	+ ·03	67	62	− 3	ENE	3	b	2	b	*	77	64	—
	Brussels	*	*	*	*	*	30.04	+ ·03	74	67	− 1	ESE	1	c	*	c	*	86	62	—
	C. Gris Nez ...	30.05	66	SW	3	bc	30.02	+ ·03	64	63	− 2	S	1	r	0	bc	*	72	61	0.08
	Paris	30.02	82	NE	2	bc	30.04	− ·04	63	62	− 9	NE	4	r	*	bc	*	88	63	—
	Brest	29.91	73	NE	1	c	29.89	− ·11	62	61	− 1	ESE	1	c	1	c	*	73	57	0.39
	Lorient	29.90	84	E	2	c	29.92	− ·09	66	64	+ 3	E	0	c	0	c	*	91	63	0.16
	Rochefort	29.88	78	NW	2	c	29.90	− ·06	70	67	0	E	1	bc	*	c	*	95	68	—
	Belfort	29.99	84	E	0	bc	30.00	− ·07	73	66	+ 2	ENE	5	c	*	bc	*	89	61	—
	Lyons	30.01	84	S	1	b	30.02	− ·06	76	61	+ 5	SSE	1	b	*	b	*	89	66	—
	Nice	30.04	77	SW	2	bc	30.11	·00	74	68	0	E	0	bc	0	bc	*	86	68	—
	Perpignan	30.01	76	NE	2	b	30.06	− ·01	71	68	− 1	E	0	o	*	b	*	82	61	—
	Biarritz	29.77	90	E	2	c	29.97	+ ·11	69	67	− 4	W	4	c	4	c	*	90	68	—
SPAN. PEN.	Corunna																*			
	Lisbon	30.04	66	W	3	b	30.10	+ ·13	68	62	+ 1	SSW	2	bc	*	b	*	72	63	—
	Azores (P. Delgada)	30.22	68	SE	4	c	30.21	+ ·04	69	65	− 1	NNW	3	c	2	c	*	75	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0·1 *hrs.*

WEATHER CHARTS

FOR Saturday, 22nd July, 1899.

BAROMETER, WIND AND SEA.

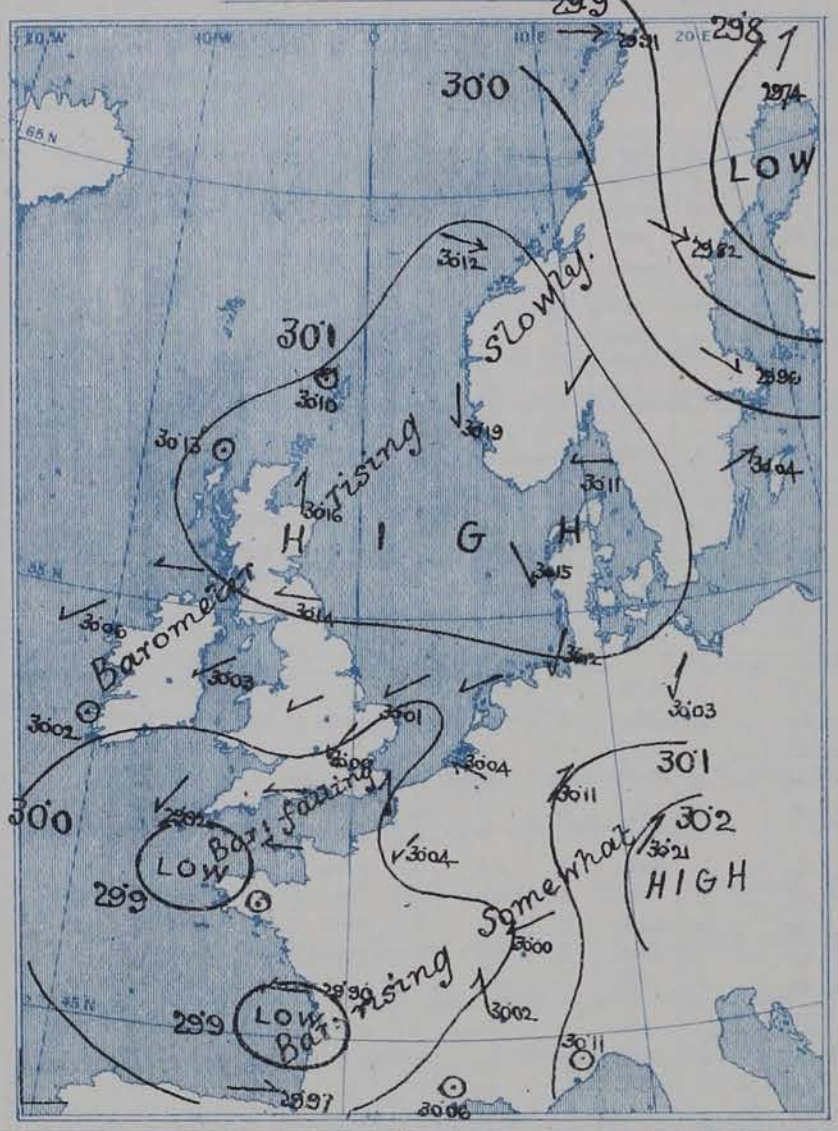
BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙

Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ : }

SEA.—Rough : *High*

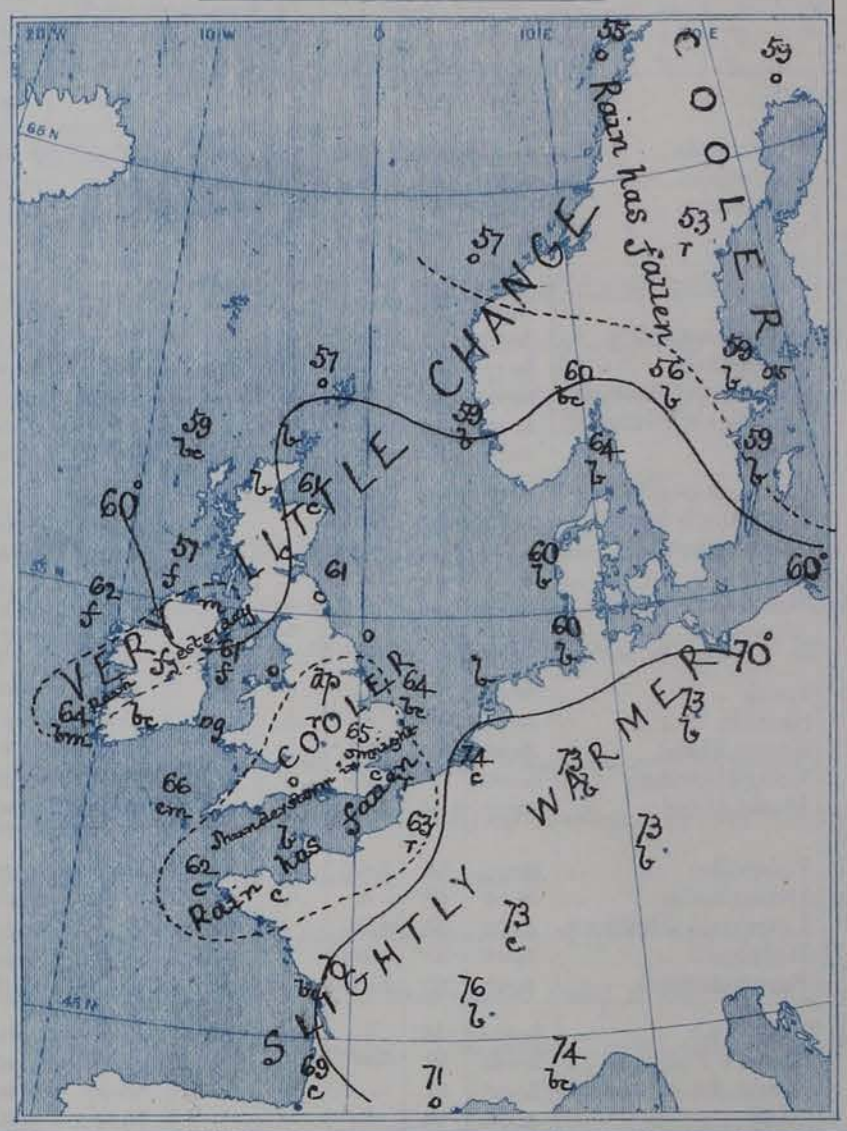


TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29·896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29·927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	—	—	—	—	—
Belmullet	29·889	57·5	54·9	62·2	53·8	—	—	—	—	3·59	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	2·82	—	—
Holyhead	29·909	58·1	55·8	63·7	54·2	83	1894	43	1888	2·37	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·99	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·98	136·5	27
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	4·23	153·8	31
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	3·18	—	—
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	2·53	199·7	40
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·47	—	—
Prawle Point	29·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·39	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·54	230·0	48
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·39	—	—
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·05	—	—
LONDON	29·953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·48	162·0†	33†
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·68	185·5	38
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·62	189·6	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest (1) 30.21 inches at Munich and exceeding 30.1 inches over South Germany generally, (2) 30.1 inches and more over Scotland and the southern parts of Scandinavia.
Lowest (1) below 29.9 inches in two small depressions, — one over the southwest of France, the other near Brest, and (2) below 30.0 inches in a small "V" over Kent and Surrey.
Gradients were slight and irregular.
Barometer was rising in the north, falling slightly in the south.

TEMPERATURE

Highest 76° to 70° over Germany and the southeast of France, 66° to 60° over the southern counties of England.
Lowest 57° at Lerwick Head and Malin Head, 58° at Valentia and below 60° all over Scandinavia.
The maxima recorded during yesterday were 70° at Nairn, 82° at Oxford, 89° in London, 90° to 95° in the west of France. [Paris report is not in yet].

WIND

Easterly to Northeasterly over Ireland and England, moderate to light in force; calm, or light Southerly in Scotland, Westerly over Sweden and the north of Norway.

WEATHER

Very fine in the north, dull and foggy in the west, dull misty and rain over England.
Lightning, thunder and rain had occurred over the southern and midland parts of England, and the north of France. Bright sunshine recorded yesterday exceeded 10 hours at several of our south coast stations; in Ireland it was very slight.

SEA

Moderate off our southeast coasts, slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The weather appears likely to clear up over England and Ireland shortly.

FORECASTS JULY 23RD

For the 24 hours ending at NOON on 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Varying light airs; fair, warmer.
1 SCOTLAND EAST	
2 ENGLAND N.E.	Northeasterly breezes, weather clearing up again.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Varying and Easterly breezes; fair as a whole. Foggy.
7 ENGLAND N.W.	
8 ENGLAND S.W.	
9 IRELAND NORTH	
10 IRELAND SOUTH	
WARNINGS	None Issued.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·17	62	53	NNW	4	b	2
Sumburgh Head	30·14	59	56	WSW	1	o	2
Stornoway... ...	30·10	65	59	S	2	c	3
Aberdeen	30·16	60	56	SE	2	c	2
Shields	30·13	63	61	ESE	2	c	3
Ardrossan ...							
Malin Head ...	30·08	63	62	E	4	b	2
Belmullet	30·06	?49	63	ENE	3	o	*
Holyhead	30·09	62	62	NE	1	ogm	*

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	30·01	64	63	2	0	om	2
Scilly	30·02	69	65	ESE	2	c	0
Jersey	30·05	70	65	SSE	2	o	2
Portland Bill ...	30·08	68	65	SW	2	c	2
Dungeness ...	30·01	70	67	WSW	2	bc	3
North Foreland							
London (Westminster)	30·00	86	71	WNW	2	bc	*
Yarmouth ...	30·02	67	64	ENE	3	b	3
Rochefort ...	29·92	95	78	E	2	bu	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The Continental Information has not been received.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Sunday 23rd July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb	Wet Bulb	Change since Yesterday.	Wind. Direc.	Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
SCANDINAVIA	Haparanda	29.84	58	Z	0	c	29.82	+ .08	61	58	+ 2	N	2	c	*	c	*	68	55	—
	Hernösand	29.90	58	NW	4	0	29.92	+ .10	60	54	+ 7	NW	4	c	*	0	*	63	50	0.32
	Stockholm	29.98	59	WNW	4	c	30.00	+ .02	61	55	+ 2	NW	2	b	*	c	*	63	50	—
	Wisby	30.01	65	NNW	4	0	30.03	— .01	62	56	+ 3	NNW	4	b	*	0	*	66	55	—
	Karlstad	30.01	67	SW	2	b	30.04	— .06	62	53	+ 6	NW	2	b	*	b	*	*	*	—
	Bodö	30.04	55	SSW	4	0	30.01	+ .10	56	54	+ 1	ESE	2	r	1	0	*	57	52	—
	Christiansund ...	30.10	58	WNW	4	0	30.03	— .09	58	55	+ 1	Z	0	c	3	0	*	58	50	—
	Skudesnaes ...	30.10	60	N	4	b	29.99	— .20	60	55	+ 1	NNW	4	b	1	b	*	64	54	*
	Færder (X'iania Fjord)	30.02	67	SW	2	b	30.03	— .09	61	55	+ 1	NE	2	b	1	b	*	68	63	—
	The Scaw (Skagen)	30.05	65	W	1	b	30.01	— .10	65	58	+ 1	SE	2	b	0	b	*	84	55	—
	Fanö	30.04	60	NNW	2	b	29.93	— .22	62	60	+ 2	ENE	2	b	*	b	*	72	54	—
BRITISH ISLANDS	Sumburgh Head ...	30.09	57	WNW	3	b	29.96	— .14	59	56	+ 2	Z	0	bc	1	b	*	60	47	—
	Stornoway	30.06	63	ESE	3	b	29.92	— .21	61	58	+ 2	Z	0	0	0	b	14.5	71	46	—
	Wick	30.08	56	E	1	f	29.93	— .22	60	58	— 3	S	1	b	1	f	*	67	46	—
	Nairn	30.05	64	E	1	bc	29.94	— .22	63	61	+ 3	Z	0	b	0	bc	*	66	55	—
	Aberdeen	30.10	60	S	3	c	29.96	— .20	58	56	— 3	S	2	og	1	bc, c	4.3	65	56	—
	Leith	30.07	64	ENE	1	0	29.95	— .18	58	57	— 2	ENE	1	0	*	0	*	64	56	—
	Shields	30.06	59	E	2	r	29.93	— .21	59	59	— 2	NE	2	op	3	o, r	*	65	56	0.16
	Spurn Head ...	30.00	59	NE	4	0	29.84	— .23	61	58	+ 1	NE	5	c	4	r, o	*	61	56	0.02
	Loughborough ...	29.99	62	NE	1	0	29.87	— .19	58	58	— 2	NNE	1	ogm	*	gm, r, dp	*	63	58	0.32
	Malin Head ...	30.02	59	ESE	4	bc	29.87	— .21	61	60	+ 4	SE	1	bc	1	f, bc	*	61	56	—
	Belmullet	30.00	66	NNE	1	bc	29.97	— .09	60	59	— 2	NW	1	0	*	o, bc	*	69	57	—
	Donaghadee ...	30.01	64	N	3	bcm	29.96	— .13	62	57	+ 4	NW	2	ogm	2	bcm	*	66	55	0.07
	Liverpool (Bidston)	29.98	62	ENE	3	r	29.88	— .17	59	57	— 3	Z	0	0	1	o, r	*	66	57	0.45
	Holyhead	29.95	65	Z	0	om	29.90	— .13	59	58	— 2	NE	2	om	1	om	*	67	57	—
	Parsonstown ...	29.96	70	SE	1	0	29.94	— .10	60	58	0	N	1	0	*	c, o	8.4	74	54	—
	Valencia	29.96	69	Z	0	cm	29.97	— .05	60	54	— 4	NNW	4	0	4	bm, t, bcm	11.6	72	58	0.02
	Roche's Point ...	29.96	67	SSE	1	bc	29.92	— .10	66	63	+ 4	NNW	2	op	2	t, bc	*	72	60	—
	Pembroke (St. Ann's Hd.)	29.91	72	NE	3	c	29.86	— .13	64	62	0	Z	0	og	0	c	5.0	73	60	—
	Scilly	29.90	66	ESE	1	c	29.86	— .06	63	63	— 3	WNW	1	m	0	c, tl	10.0	70	60	—
	Jersey (St. Aubin's) ...	29.90	69	W	3	ogtp	29.91	— .01	65	62	— 5	SW	2	cg	2	ogtp	*	78	61	0.04
	Portland Bill ...	29.90	67	SE	1	ct	29.87	— .08	62	62	— 3	N	2	otlrf	2	bc, ct	*	72	57	0.17
	Dungeness	29.89	69	NE	4	b	29.82	— .15	63	63	0	WSW	4	cp	3	b	*	72	62	0.36
	London (Brixton) ...	29.92	75	SE	2	c	29.84	— .16	64	63	— 1	SW	1	o	*	c, tlr	5.3	84	62	0.50
	Oxford	29.92	66	NNE	2	0	29.83	— .18	61	61	— 2	NNE	1	r	*	op, o	*	71	61	0.76
	Yarmouth	29.94	64	ENE	4	c	29.76	— .25	62	61	— 2	SE	3	c	4	r, c, tlr	*	65	60	0.46
GERMANY	Cuxhaven	30.00	70	N	2	c	29.86	— .26	64	61	+ 4	S	2	c	*	c	*	72	61	—
	Berlin	29.99	76	ENE	2	b	29.88	— .15	67	64	— 6	ESE	1	0	*	b	*	86	66	0.08
	Wiesbaden	*	*	*	*	*									*	*	*			
	Munich	30.10	73	Z	0	c	30.07	— .14	76	67	+ 3	SW	5	0	*	c	*	84	63	—
FRANCE & NETHERLANDS	The Helder ...	29.91	68	ENE	4	bc	29.74	— .29	65	63	— 2	NE	3	c	3	bc	*	75	64	0.39
	Brussels	*	*	*	*	*	29.85	— .19	69	64	— 5	SW	3	b	*	0	*	87	63	—
	C. Gris Nez ...	29.89	66	ENE	3	bc	29.85	— .18	64	63	0	SW	2	0	2	bc	*	75	61	1.14
	Paris	29.89	80	SW	2	0	29.93	— .11	68	63	+ 5	W	2	bc	*	0	*	87	61	—
	Brest	29.95	65	W	1	c	29.88	— .01	62	62	0	Z	0	0	2	c	*	72	57	0.08
	Lorient	29.96	68	W	3	bc	29.86	— .06	66	65	0	SW	5	r	4	bc	*	91	63	—
	Rochefort	29.95	70	NW	3	0	29.96	+ .06	70	66	0	NE	2	c	*	0	*	81	64	—
	Belfort	29.91	81	WSW	4	0	29.90	— .10	74	64	+ 1	W	2	m	*	0	*	91	66	—
	Lyons	29.91	88	SE	1	b	29.96	— .06	72	66	— 4	S	1	0	*	b, tlr	*	95	65	0.08
	Nice	30.05	79	SW	2	b	30.01	— .10	75	68	+ 1	SW	2	b	0	b	*	86	68	—
	Perpignan	30.02	72	Z	0	t	30.03	— .03	74	70	+ 3	NE	2	0	*	t	*	78	67	0.04
	Biarritz	29.96	72	N	4	b	29.93	— .04	70	66	+ 1	N	3	bc	2	b	*	77	66	—
SPAN. PEN.	Corunna	29.99	75	SSW	4	f	30.27	+ .28	65	63	— 1	WSW	5	f	2	f	*	77	61	0.04
	Lisbon	30.10	68	NW	4	b	30.15	+ .05	69	63	+ 1	WNW	4	c	*	b	*	77	64	—
	Azores (P. Delgada)	30.28	68	NE	2	b	30.33	+ .12	72	66	+ 3	N	2	b	2	b	*	77	64	—

For Explanation of Columns, see bottom of last page. * *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0·1 hrs.

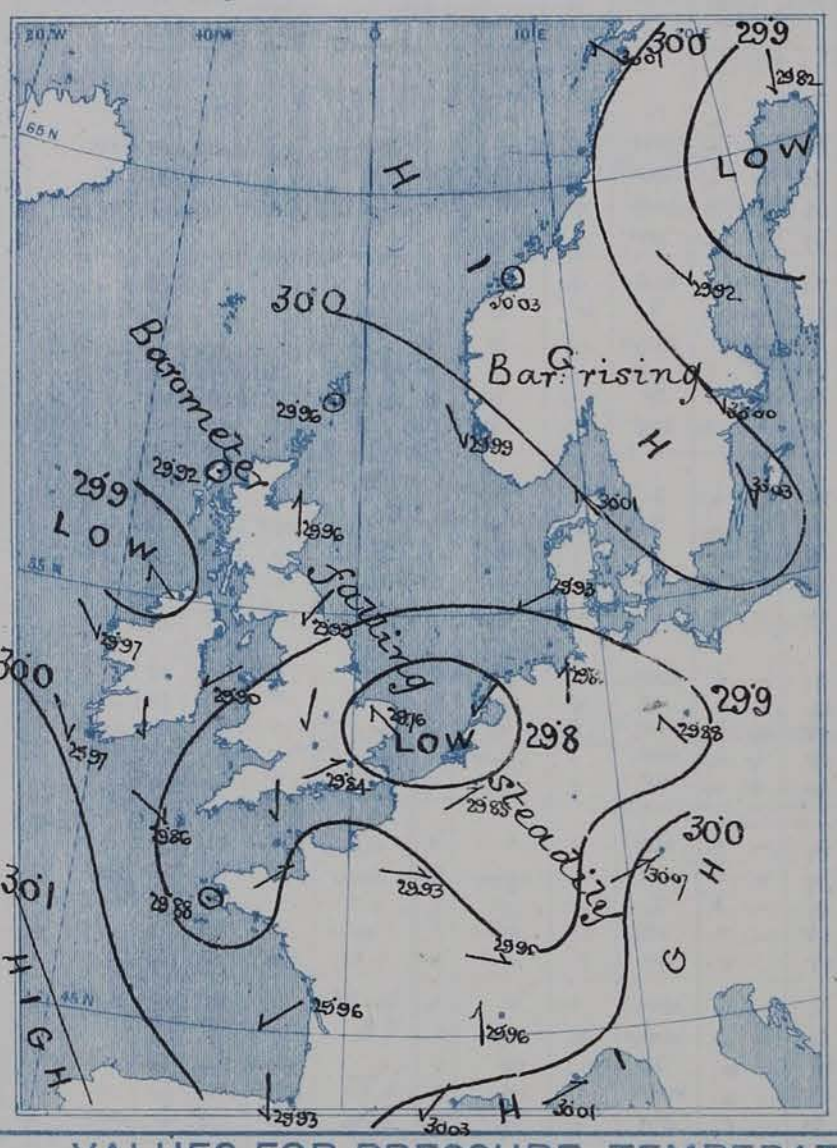
WEATHER CHARTS

FOR Sunday, 23rd July, 1899.

BAROMETER, WIND AND SEA.

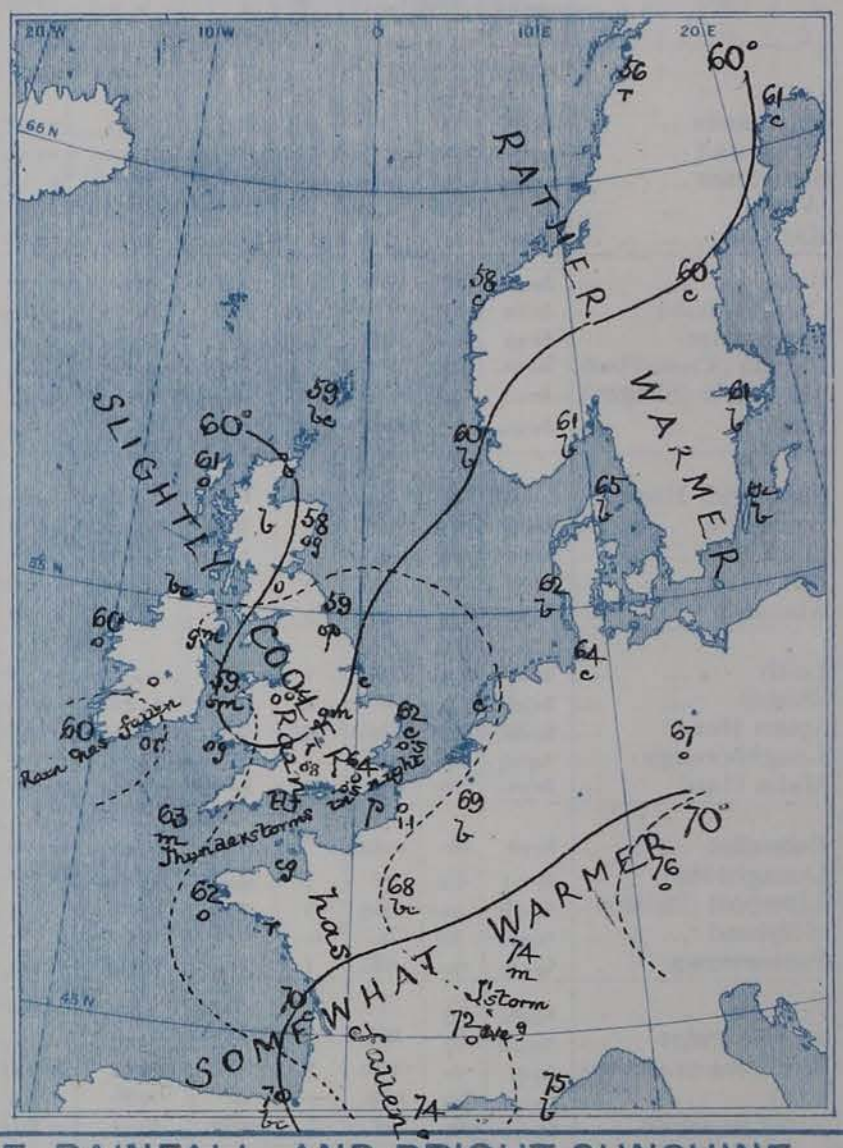
BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ : }
SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29·896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29·927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	--	—	—	—	—
Belmullet	29·889	57·5	54·9	62·2	53·8	—	—	—	—	3·59	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	2·82	—	—
Holyhead	29·909	58·1	55·8	63·7	54·2	83	1894	43	1888	2·37	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·99	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·98	136·5	27
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	4·23	153·8	31
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	3·18	—	—
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	2·53	199·7	40
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·47	—	—
Prawle Point	29·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·39	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·54	230·0	48
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·39	—	—
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·05	—	—
LONDON	29·953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·48	162·0†	33†
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·68	185·5	38
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·62	189·6	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest (1) 30·33 in: at P. Delgada (Azores), and exceeding 30·0 in: over Portugal and off the southwest of Ireland; (2) 30·0 in: and more over the west of Norway and the south of Sweden; (3) 30·0 in: and more over South Germany and the southeast of France.
Lowest (1) 29·8 in: and less, in a depression over Holland and the southeast of England; (2) 29·8 in: and less, over the northern parts of the Gulf of Bothnia; (3) 29·9 in: and less over the north of Ireland.
Gradient slight over our Islands and the Continent, but apparently moderate off our southwest coast and the west of Portugal.
Barometer begun to rise again at the extreme southwestern stations, but falling slowly in the east and northeast.

TEMPERATURE

Highest (1) 76° at Munich, 75° to 70° in the south of France, 68° at Paris, 64° in London; (2) 67° at Berlin, 65° at the Skaw.
Lowest, 56° at Rörö, 58° at Aberdeen and Leith, 59° at Shields and Holyhead. It had fallen considerably at our northern and northeastern stations and over Belgium and North Germany during the night.
The maxima recorded yesterday were 84° in London, 86° at Berlin, 87° at Paris, 91° at Lorient, and 95° at Lyons.

WIND

Calm in Scotland, NW. light, over Norway and Ireland. Very light and variable (but mainly cyclonic) over England, the north of France and North Germany; light and variable in the south of France.

WEATHER

Clear at some of the Scotch stations and in various parts of Germany and France, cloudy to rainy in the south and east of our Islands with a thunderstorm at Jersey. Bright Sunshine recorded yesterday ranged from 4·3 hrs at Aberdeen to 14·5 hrs at Stornoway. Thunderstorms and heavy rains have been general in the south of our Islands and in many parts of France during the night. 1·14 in: of rain has fallen at Cape Gris Nez, 0·76 in: at Oxford, 0·5 in: at Brixton and more than an inch at Westminster. [Newspapers report heavy rain in Devonshire also].

SEA

Moderate at Valencia, Yarmouth and Lorient, slight at our southern stations, smooth in the north.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 24TH JULY 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED	6 SCOTLAND WEST	NONE ISSUED.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·17	64	55	N	4	b	1
Sumburgh Head	30·12	58	55	WNW	3	b	2
Stornoway... ...	30·10	71	65	SSE	3	b	2
Aberdeen	30·14	62	57	SSE	3	bc	2
Shields	30·11	63	60	E	2	o	3
Ardrossan ...							
Malin Head ...	30·06	60	60	ESE	4	f	2
Belmullet	30·04	68	64	NNE	1	o	*
Holyhead	29·99	67	64	ENE	2	om	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	29·98	69	65	NW	4	bm	4
Scilly	29·90	69	66	ESE	2	c	0
Jersey	29·90	76	69	ESE	2	b	2
Portland Bill ...	29·93	71	66	SE	3	bc	2
Dungeness ...	29·93	71	68	ENE	4	b	3
North Foreland							
London (Westminster)	29·94	77	69	ENE	2	bc	*
Yarmouth ...	29·98	64	62	NE	4	r	4
Rochefort ...	29·96	75	70	SW	3	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over eastern and central Europe and in Scotland, fair over Ireland, (but foggy in several places), cloudy, changeable, and unsettled over England and France. A temporary improvement later in the last named districts, but becoming thundery and very rainy again at night [Amounts in London varying from 0·15 in: to an inch and a quarter]. Smaller quantities on our northeastern coast also.

Temperature inclined to give way at first over France, England, and Sweden. Morning readings highest 99° at Algiers, 84° at Barcelona, 80° at Athens and Toulon; exceeding 70° almost all over Spain, and the south and southeast of France, 66° at Scilly, 65° in London. Lowest 55° at Bodö, 57° at Christiansund, Sumburgh Head, and Malin Head, 60° at Nairn, Leith, and Parsonstown. Rising later to only 63° at Loughborough, to 84° in London and at Munich, to 86° at Berlin, 87° at Paris and Brussels, 91° at Brest, 95° at Lyons.

Wind (1) W³ at Biarritz, S³ at Limoges and Lyons, SW³ over Germany; E³ to NE³ over our Islands and the north of France; (2) NW³ at Christiansund, NW¹ to SW³ over the south of Sweden, S³ to E³ in the south of Finland. Another cyclonic circulation over the Black Sea. A W³ breeze spreading over France later, but winds remaining E³ over our Islands.

Barometer highest 30·1 in: to 30·2 in: in an anticyclone of irregular form lying over the North Sea, Scotland, and the south of Norway and also over Switzerland and South Germany. Lowest (1) 29·9 in: and less to 30·0 in: over the Bay of Biscay, the west of France, and the southern counties of England; (2) 29·8 in: and less to 29·9 in: in another depression over Finland and the Gulf of Bothnia; (3) 29·8 in: and less over the Black Sea. Depression over the Bay of Biscay and France moving northeastwards later.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Monday 24th July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M.S.L.	Change since Yesterday.	Temperature. Dry Bulb	Wet Bulb	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
SCANDINAVIA	Haparanda	29.80	58	N	2	c	29.79	−.03	58	55	−3	N	1	o	•	c	•	68	54	—
	Hernösand	29.86	60	2	o	o	29.80	−.12	65	57	+5	2	o	b	•	o	•	75	54	—
	Stockholm	29.91	63	2	o	b	29.85	−.15	69	61	+8	2	o	b	•	b	•	72	54	—
	Wisby	29.95	61	SE	4	b	29.88	−.15	67	59	+5	ESE	4	b	•	b	•	68	54	—
	Karlstad	29.88	67	2	o	b	29.84	−.20	65	58	+3	N	2	b	•	b	•	•	•	—
	Bodö	29.93	58	2	o	o	29.84	−.17	59	53	+3	E	2	b	1	o	•	59	52	—
	Christiansund ...	29.89	61	NNE	1	b	29.82	−.21	60	58	+2	NNW	1	c	2	b	•	63	54	—
	Skudesnaes ...	29.89	63	N	4	b	29.86	−.13	62	59	+2	N	6	b	1	b	•	68	54	•
	Færder (X'iania Fjord)	29.87	72	2	o	b	29.84	−.19	67	59	+6	N	1	b	1	b	•	72	61	—
	The Scaw (Skagen)	29.88	67	NE	1	b	29.83	−.18	67	63	+2	ENE	1	b	0	b	•	81	59	—
	Fanö	29.80	68	2	o	c	29.78	−.15	66	64	+4	ESE	2	c	•	c,l	•	79	62	—
BRITISH ISLANDS	Sumburgh Head ...	29.88	63	SW	2	c	29.86	−.10	59	59	−2	WNW	1	c	2	c	•	64	53	—
	Stornoway	29.88	63	NNW	1	o	29.96	+.04	59	54	−4	WNW	2	o	2	o	4.4	66	51	—
	Wick	29.89	60	2	o	o	29.94	+.01	60	58	0	N	3	c	1	o	•	65	52	0.01
	Nairn	29.88	62	2	o	r	29.95	+.01	60	58	−3	W	1	bc	1	r	•	70	53	0.35
	Aberdeen	29.89	58	S	2	o	29.93	−.03	63	60	+5	NW	2	c	1	o,g	0.0	63	56	0.23
	Leith	29.92	59	ENE	1	o	29.94	−.01	63	60	+5	WNW	1	bc	•	o	•	63	56	0.01
	Shields	29.89	60	NE	2	f	29.93	.00	59	58	0	WNW	1	o	3	fog	•	63	55	0.03
	Spurn Head ...	29.81	59	N	6	b	29.92	+.08	61	59	0	NNW	4	c	4	o,r	•	62	57	0.11
	Loughborough ...	29.85	60	N	1	r	29.96	+.09	60	57	+2	WNW	2	ow	•	of,o,c	•	65	55	0.14
	Malin Head ...	29.91	62	WNW	5	cf	30.04	+.17	57	54	−4	NW	5	o	4	o,cf,rm	•	67	54	0.03
	Belmullet	30.00	62	NNW	2	o	30.15	+.18	56	53	−4	NNW	1	o	•	o	•	62	52	0.06
	Donaghadee ...	29.92	63	SSE	2	bc	30.04	+.08	58	57	−4	NNW	3	o	3	bc	•	66	55	—
	Liverpool (Bidston)	29.88	61	WNW	2	o	30.00	+.12	61	59	+2	WNW	2	c	2	o	•	64	58	0.01
	Holyhead	29.91	59	N	2	ow	30.03	+.13	58	58	−1	NNW	3	ow	2	ow	•	62	56	—
	Parsonstown ...	29.94	67	NW	1	o	30.12	+.18	58	54	−2	NW	1	o	•	c,o	3.0	69	50	—
	Valencia	30.03	62	NNW	5	cw	30.18	+.21	59	54	−1	NNW	3	o	4	cw	5.2	63	56	0.02
	Roche's Point ...	29.97	67	NNW	3	b	30.12	+.20	62	57	−4	NNW	3	b	3	b	•	70	56	—
	Pembroke (St. Ann's Hd.)	29.90	62	NE	4	bc	30.07	+.21	58	56	−6	NNW	4	og	2	bc	10.0	68	57	—
	Scilly	29.91	64	WNW	4	w	30.08	+.22	65	62	+2	NW	3	o	1	c,w	2.9	69	61	—
	Jersey (St. Aubin's) ...	29.87	68	WNW	3	bc	30.00	+.09	63	61	−2	WNW	3	ow	3	c,bc,cg	•	70	61	—
	Portland Bill ...	29.85	63	W	2	obr	29.99	+.12	66	65	+4	NNW	4	ow	2	obr	•	67	59	0.80
	Dungeness	29.79	65	WSW	4	c	29.86	+.04	62	59	−1	NNW	4	bc	3	o,c	•	66	59	—
	London (Brixton) ...	29.81	65	NW	1	r	29.92	+.08	62	58	−2	N	2	o	*	o,d	0.0	68	58	0.03
	Oxford	29.85	62	N	2	o	29.97	+.14	61	58	0	N	3	c	*	r,og	•	65	57	0.05
	Yarmouth	29.74	62	NW	3	o	29.85	+.09	60	59	−2	N	4	c	4	od,r	•	63	57	0.08
GERMANY.	Cuxhaven	29.75	72	2	o	o	29.73	−.13	68	66	+4	N	2	f	•	o	•	75	63	—
	Berlin	29.77	69	SE	1	c	29.73	−.15	69	65	+2	WNW	1	o	•	c	•	79	63	0.08
	Wiesbaden	•	•	•	•	•	29.85		69	63		S	3	bc	•	•	•	82	64	—
	Munich	29.97	71	SSE	3	o	29.98	−.09	64	62	−12	W	5	o	•	o	•	86	61	0.12
FRANCE & NETHERLANDS.	The Helder ...	29.76	64	WSW	1	bc	29.76	+.02	66	63	+1	2	o	c	o	bc	•	75	61	—
	Brussels	•	•	•	•	•	29.81	−.04	63	61	−6	WSW	2	o	•	b	•	79	59	0.51
	C. Gris Nez ...	29.83	63	W	3	o	29.85	.00	60	59	−4	N	4	o	4	o	•	66	59	—
	Paris	29.86	73	W	2	r	29.90	−.03	61	61	−7	SW	2	r	•	r	•	83	59	0.12
	Brest	29.92	63	NW	2	o	30.08	+.10	62	61	0	NW	2	o	2	o	•	72	57	—
	Lorient	29.92	67	WNW	5	bc	30.05	+.19	63	61	−3	NW	4	c	4	bc	•	86	63	0.04
	Rochefort	29.95	70	W	3	c	30.02	+.06	67	64	−3	NW	3	bc	•	o,c	•	73	64	0.12
	Belfort	29.86	68	WSW	3	r	29.93	+.08	60	59	−14	WSW	4	w	•	r	•	81	58	0.43
	Lyons	29.88	72	S	3	o	30.01	+.05	63	61	−9	SW	1	c	•	o,tr	•	77	59	0.24
	Nice	29.96	75	W	3	c	29.86	−.15	74	61	−1	NW	2	b	2	c	•	88	66	—
	Perpignan	29.96	70	S	1	o	30.03	.00	70	62	−4	NW	3	c	•	o,th	•	87	63	0.08
	Biarritz	29.98	72	W	3	c	30.05	+.12	64	63	−6	W	5	rtl	4	c	•	75	63	0.39
SPAN. PEN.	Corunna																•			
	Lisbon	30.07	67	NNW	4	bc	30.14	−.01	68	62	−1	N	5	b	•	bc	•	77	63	—
	Azores (P. Delgada)	30.41	68	NE	2	b	30.41	+.08	72	68	0	N	1	b	2	b	•	79	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

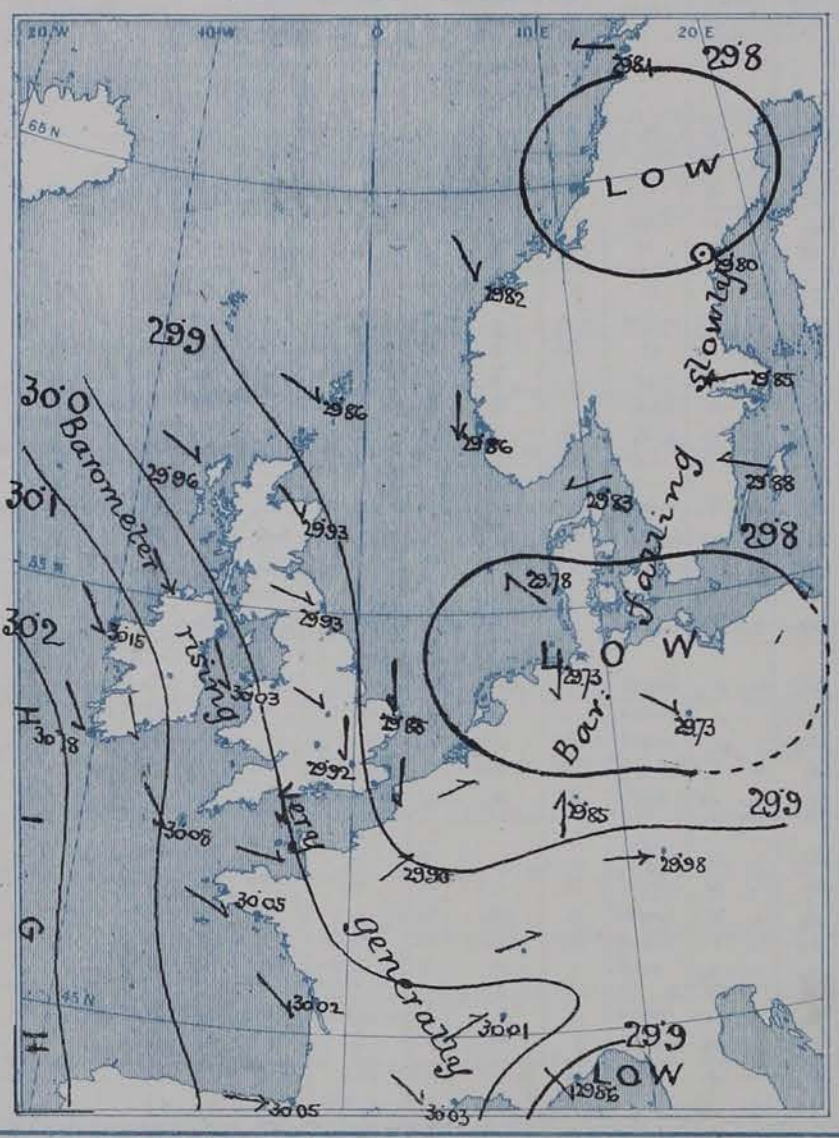
Bright Sunshine yesterday Southport 0.0 *hrs.*

WEATHER CHARTS

FOR Monday, 24th July, 1899.

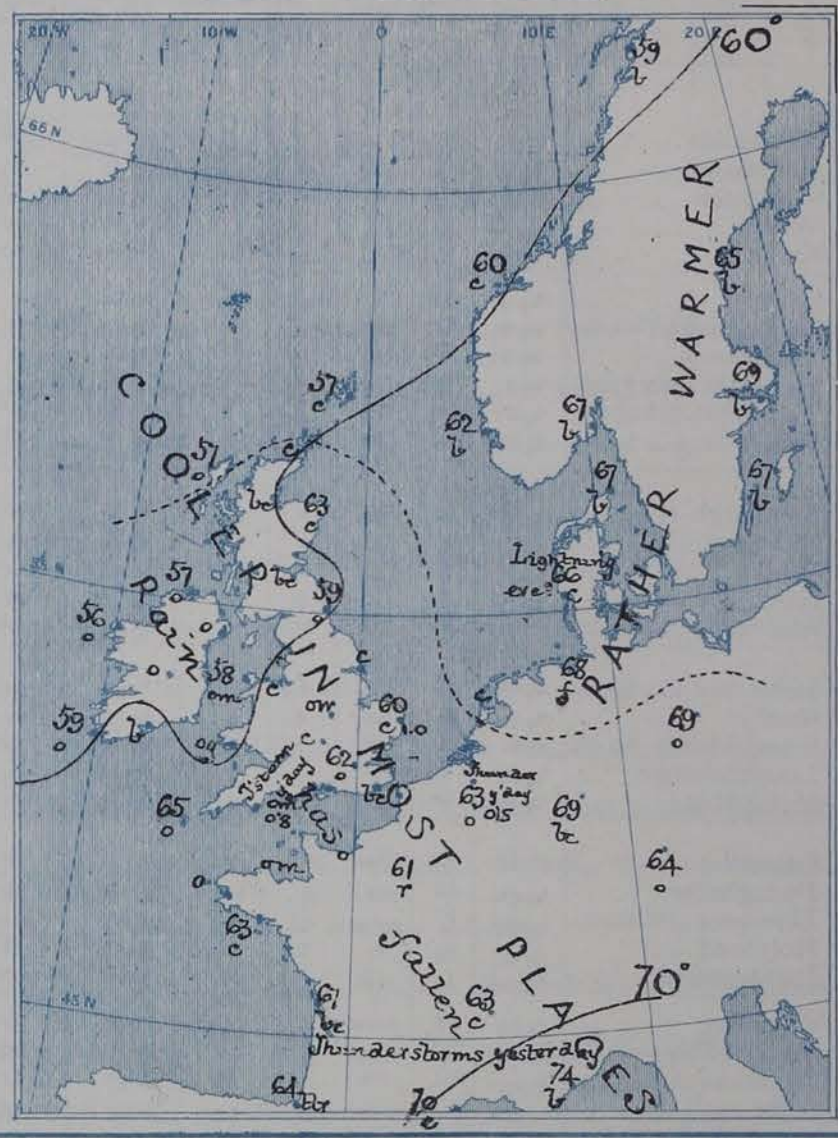
BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.
Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ : }
SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29·896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29·927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	—	—	—	—	—
Belmullet	29·889	57·5	54·9	62·2	53·8	—	—	—	—	3·59	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	2·82	—	—
Holyhead	29·909	58·1	56·8	63·7	54·2	83	1894	43	1888	2·37	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·99	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·98	136·5	27
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	4·23	153·8	31
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	3·18	—	—
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	2·53	199·7	40
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·47	—	—
Prawle Point	29·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·39	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·54	230·0	48
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·39	—	—
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·05	—	—
LONDON	29·953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·48	162·0†	33†
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·68	185·5	38
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·62	189·6	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 inches to 30.0 inches over our western coasts and the adjacent parts of the Atlantic.
Lowest 29.7 inches in a complex depression over North Germany, and below 29.8 inches in another disturbance over the north of Scandinavia.
Gradients were moderate. Barometer was rising over our Islands generally.

TEMPERATURE

Highest 69° at Berlin and Wiesbaden, 66° at Portland Bill, and above 60 over the east and south of our Islands, and over France.
Lowest 54° at Lerwick Head, and Stornoway, 56° at Belmullet, 58° at Valentia, Donaghadee & Holyhead.
The maxima recorded yesterday were 70° at Nairn, Roches Point and Jersey, 69° at Scilly, 68° in London; 82° at Wiesbaden, 83° at Paris and 86° at Lorient.

WIND

Northwesterly to Northerly over our Islands and of moderate strength, Southerly and Westerly over Germany, Easterly in the south of Scandinavia.

WEATHER

Fair, but not settled, over Great Britain, fine over Ireland, fair over France; cloudy and apparently unsettled over Germany, — thunder at Brussels.
A great deal of rain fell yesterday at some of our southern and eastern stations, smaller quantities in several other places. Bright sunshine recorded yesterday amounted to 10 hours at Scilly, and 5 hours at Valencia. Over Great Britain, as a whole, there was very little.

SEA

Moderate to smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

After some passing showers (and possibly thunder) at our northern and eastern stations, fine weather is likely to spread over us from the westward.

FORECASTS

For the 24 hours ending at NOON on JULY 25TH 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Northwesterly breezes, moderate; some showers, then fine.
1 SCOTLAND EAST	
2 ENGLAND N.E.	Northerly and Northwesterly breezes; slight passing showers, then fine.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Northerly and Northwesterly breezes, light; fine generally.
7 ENGLAND N.W.	
8 ENGLAND S.W.	
9 IRELAND NORTH	
10 IRELAND SOUTH	
WARNINGS	None Issued.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29.94	68	64	NNW	2	6	1
Sumburgh Head							
Stornoway... ...	29.90	63	61	SSE	1	0	1
Aberdeen							
Shields							
Ardrossan ...							
Malin Head ...	29.86	67	65	E	1	0	1
Belmullet	29.99	62	57	WNW	2	0	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia							
Scilly							
Jersey	29.89	69	65	SSW	3	c	3
Portland Bill ...							
Dungeness ...	29.80	64	63	SW	5	0	4
North Foreland							
London (Westminster)							*
Yarmouth ...							
Rochefort ...	29.97	72	66	WNW	3	0	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM JULY 16TH TO JULY 22ND 1899.

During the earlier part of this week a broad band of high pressure in which the readings varied from 30.2 inches and more to 30.1 inches stretched from the Spanish Peninsula across France, England, the North Sea and Denmark to the north of Europe. In this band the winds were light and variable, the weather fine excepting one or two local and temporary thundershowers, and temperature high in the daytime.

After Wednesday this high pressure band moved southeastwards and at night a new anticyclone appeared over Scotland and finally spread to the North Sea and Scandinavia. Temperature became very high over England and France with the Southeasterly winds so caused, but as at the same time shallow "thunderstorm" depressions began to appear over the Bay of Biscay, France and the Channel, and to move northwards, the latter part of the week brought rain and thunderstorms to our southern counties, while Scotland was visited by fairer weather generally. Germany also, and the Baltic had thunderstorms and rain.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l, lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Tuesday 25th July, **1899.**

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M.S.L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb	Temperature. Wet Bulb	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
SCANDINAVIA	Haparanda ...	29.72	59	Z	0	c	29.72	−.07	63	57	+ 5	Z	0	c	•	c	•	68	54	—
	Hernösand ...	29.75	63	Z	0	c	29.78	−.02	64	56	− 1	N	2	bc	•	c	•	75	54	—
	Stockholm ...	29.84	64	SSW	2	b	29.83	−.02	70	63	+ 1	SSW	2	b	•	b	•	73	57	—
	Wisby ...	29.85	65	SE	4	b	29.86	−.02	65	60	− 2	NNE	4	b	•	b	•	72	54	—
	Karlstad ...	29.79	69	Z	0	bc	29.78	−.06	68	61	+ 3	SW	2	b	•	bc	•	•	•	—
	Bodö ...	29.78	59	Z	0	b	29.77	−.07	56	54	− 3	S	2	bc	1	b	•	63	52	0.12
	Christiansund ...	29.87	58	N	1	0	29.80	−.02	59	56	− 1	W	4	0	2	0	•	59	55	0.08
	Skudesnaes ...	29.90	61	NNW	4	b	29.89	+.03	60	55	− 2	WNW	4	0	2	0,b	•	63	55	•
	Færder (X'iania Fjord)	29.78	70	SW	4	b	29.78	−.06	68	63	+ 1	[illegible]	1	b	2	b	•	72	64	—
	The Scaw (Skagen)	29.84	72	S	1	b	29.82	−.01	66	60	− 1	W	3	b	0	b	•	86	59	—
	Fanö ...	29.85	66	NW	4	c	29.97	+.19	64	59	− 2	NW	5	b	•	c	•	73	61	—
BRITISH ISLANDS	Sumburgh Head ...	29.92	56	WNW	1	0	29.70	−.16	53	53	− 4	SW	3	r	4	bc, 0	•	60	52	0.06
	Stornoway ...	29.96	57	WNW	4	r	29.75	−.21	59	58	+ 2	WSW	4	r	4	0, r	1.0	61	52	0.08
	Wick ...	29.98	59	W	2	c	29.76	−.18	62	58	+ 2	SW	3	c	2	c	•	65	49	0.01
	Nairn ...	29.99	61	W	1	c	29.81	−.14	63	59	+ 3	W	3	c	1	c	•	65	52	—
	Aberdeen ...	30.00	57	S	1	0	29.85	−.08	62	58	− 1	S	2	c	1	cgp, 0	3.2	65	54	0.07
	Leith ...	29.99	64	W	3	b	29.95	+.01	59	56	− 4	WSW	2	r	•	b	•	72	54	0.01
	Shields ...	30.01	61	Z	0	p	30.02	+.09	59	55	0	SW	3	p	2	bc, p	•	65	52	0.01
	Spurn Head ...	30.00	63	NE	2	b	30.09	+.17	61	56	0	WNW	4	bc	3	b	•	66	55	—
	Loughborough ...	30.04	66	WNW	4	c	30.15	+.19	61	56	+ 1	WNW	2	bcw	•	o, cm, bc	•	74	51	—
	Malin Head ...	30.09	59	W	4	bc	29.95	−.09	60	60	+ 3	WSW	5	of	4	bc	•	63	56	0.14
	Belmullet ...	30.16	60	NNE	1	b	30.11	−.04	61	61	+ 5	WNW	5	0	•	b	•	62	55	0.22
	Donaghadee ...	30.11	59	NW	2	c	30.04	.00	59	58	+ 1	W	2	og	2	c	•	60	50	—
	Liverpool (Bidston) ...	30.10	61	W	4	b	30.13	+.13	61	57	0	SW	2	bc	1	o, b	•	64	53	—
	Holyhead ...	30.14	59	NW	1	c	30.14	+.11	59	56	− 1	SW	3	c	2	c	•	62	54	—
	Parsonstown ...	30.17	63	NW	1	0	30.14	+.02	60	58	+ 2	W	1	0	•	c, 0	3.2	64	52	—
	Valencia ...	30.25	61	WNW	2	cv	30.21	+.03	62	61	+ 3	SW	4	omg	4	c, cv	6.0	63	55	—
	Roche's Point ...	30.20	64	NNW	3	bc	30.22	+.10	63	60	+ 1	W	2	c	2	bc	•	65	55	—
	Pembroke (St. Ann's Hd.)	30.17	62	NNW	3	b	30.23	+.16	60	58	+ 2	W	3	c	2	b	10.9	64	56	—
	Scilly ...	30.19	68	WNW	4	c	30.26	+.18	62	59	− 3	WNW	2	b	1	c	9.4	68	58	—
	Jersey (St. Aubin's) ...	30.11	68	W	4	bm	?30.26	+.26	64	60	+ 1	WNW	3	bm	3	bm, bcw	•	71	58	—
	Portland Bill ...	30.06	60	NNW	5	c	30.23	+.24	61	58	− 5	N	2	b	3	o, c	•	69	56	—
	Dungeness ...	29.99	68	NNE	4	b	30.16	+.30	63	59	+ 1	NNW	3	c	2	c, b	•	71	56	—
	London (Brixton) ...	30.02	71	N	1	bc	30.19	+.27	62	56	0	NW	1	b	•	c, o, b	4.4	74	54	—
	Oxford ...	30.09	63	NNW	2	b	30.19	+.22	62	56	+ 1	NW	2	b	•	c, b	•	74	51	—
	Yarmouth ...	29.98	65	N	4	b	30.12	+.27	60	58	0	NW	3	b	2	bc, b	•	65	52	—
GERMANY	Cuxhaven ...	29.80	64	N	1	r	29.97	+.24	66	63	− 2	N	3	bc	•	bh	•	70	63	0.16
	Berlin ...	29.78	69	Z	0	0	29.89	+.16	65	62	− 4	NNW	2	o	•	o	•	77	64	0.12
	Wiesbaden ...	•	•	•	•	•	?29.86	+.01	65	62	− 4	NW	3	o	•	•	•	71	63	—
	Munich ...	30.00	62	SW	4	c	30.10	+.12	60	58	− 4	W	5	o	•	c	•	72	57	0.08
FRANCE & NETHERLANDS	The Helder ...	29.90	64	N	3	bc	30.07	+.31	64	59	− 2	NNW	1	bc	1	bc	•	70	63	—
	Brussels ...	•	•	•	•	•	30.16	+.34	62	59	− 1	WNW	2	o	•	r	•	72	55	0.32
	C. Gris Nez ...	30.01	62	E	3	bc	30.15	+.30	62	59	+ 2	N	1	m	1	bc	•	68	57	—
	Paris ...	30.02	64	NW	4	o	30.20	+.30	62	58	+ 1	NW	1	o	•	o	•	65	57	0.12
	Brest ...	30.17	64	NW	2	b	30.27	+.19	59	57	− 3	N	1	b	1	b	•	68	52	—
	Lorient ...	30.14	69	NW	5	bc	30.26	+.21	59	58	− 4	NNE	3	b	4	bc	•	73	57	—
	Rochefort ...	30.15	69	NW	5	c	30.27	+.25	64	60	− 3	NE	3	c	•	bc, c	•	72	59	—
	Belfort ...	29.92	60	WSW	6	r	30.07	+.14	58	58	− 2	WSW	3	f	•	r	•	81	57	0.16
	Lyons ...	30.05	61	NW	1	r	30.18	+.17	60	58	− 3	ENE	1	o	•	bh	•	76	59	0.32
	Nice ...	29.72	84	W	6	b	29.86	.00	73	59	− 1	SW	1	c	1	b	•	93	66	—
	Perpignan ...	30.02	79	NW	2	b	30.17	+.14	71	61	+ 1	NW	3	m	•	b	•	82	66	—
	Biarritz ...	30.12	70	NW	5	c	30.20	+.15	68	62	+ 4	NW	3	bc	2	c	•	72	64	—
SPAN. PEN.	Corunna ...																•			
	Lisbon ...	30.09	69	NNW	5	b	30.03	−.11	77	62	+ 9	NE	5	b	•	b	•	79	68	—
	Azores (P. Delgada)	30.31	69	N	3	bc	30.36	−.05	71	65	− 1	NE	2	o	2	bc	•	77	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 11.2 *hrs.*

WEATHER CHARTS

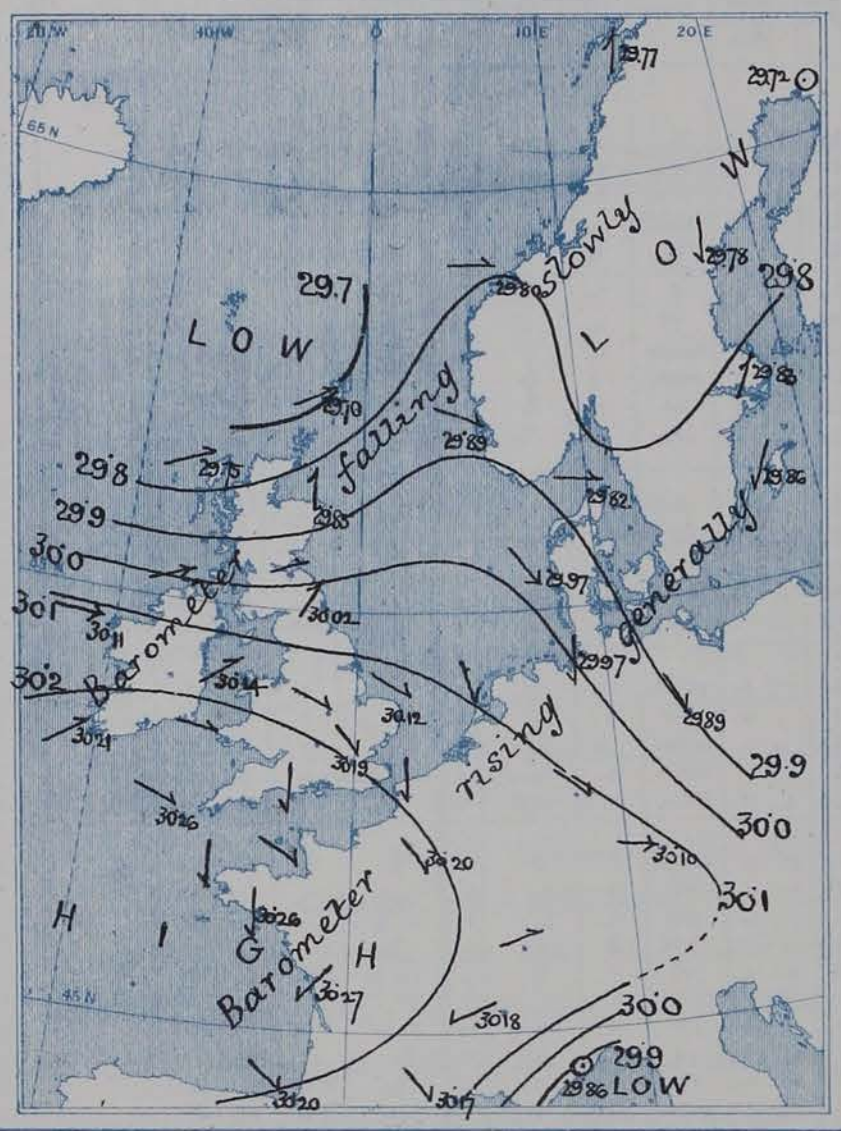
FOR Tuesday, 25th July, 1899.

BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

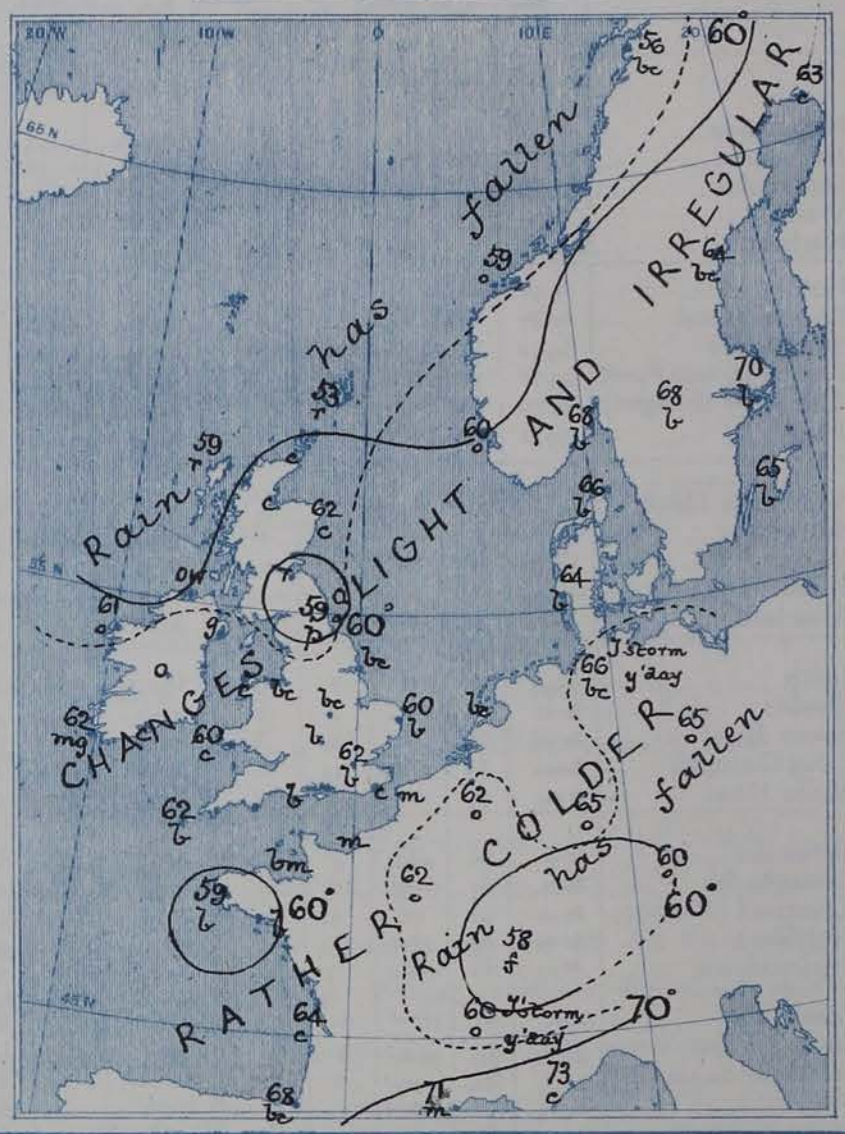
Force above 10 : *Force 5 to 7* : } Calm⊙
Force 8 to 10 : *Force 1 to 4* : }

SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough ...	29 . 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	--	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point ...	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point.....	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON.....	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 inches and upwards in an anticyclone lying over the Bay of Biscay, the west and north of France, and the southern parts of the United Kingdom.
Lowest 29.7 inches and less in a depression lying off the north of Scotland; 29.9 inches and less in a small disturbance over the Gulf of Genoa.
Gradients slight generally, but moderate over the northern parts of our Islands and the North Sea.
Barometer falling in the north of our Islands, and also at several of the Scandinavian stations, but rising elsewhere.

TEMPERATURE

Highest (1) 73° at Nice and 71° at Perpignan; (2) 70° at Stockholm and 68° at Karlstadt and Fredrikshavn; highest in our Islands 64° at Jersey and 63° at Nairn, Roche's Point and Dungeness.
Lowest (1) 53° at Lerwick, Kew and Bodo; 57° at Holyhead; (2) 59° at Brest, Lorient and Belfort.
During yesterday the thermometer rose to 70° and upwards in many parts of Great Britain and to 74° in London and at Oxford and Loughborough.

WIND

Moderate to fresh from the Westward or Southwestward over Ireland and the northern parts of Great Britain, as well as in the southern parts of Scandinavia.
Light from the Northwestward over the central and southern parts of England and also over France, Germany and the Netherlands.

WEATHER

Cloudy or dull over Ireland, the northern parts of Great Britain and the west of Norway, with rain at Lerwick, Stornoway and Leith, and passing showers at Shields.
Fine over England, and the western parts of the Continent generally; dull over Germany, Belgium & Central France.
Since yesterday morning a little rain has fallen in the northern parts of our Islands, and the west of Norway, as well as at several of the French and German stations. Thunderstorms have occurred at Cuxhaven & Lyons.

SEA

Moderate on our extreme western and northern coasts, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone noticed yesterday off our western coasts has spread in over the southern parts of the United Kingdom, but a well marked depression has in the meantime appeared off the north of Scotland. The latter system will probably move in an easterly or perhaps in a southeasterly direction across the North Sea, and the showery weather in the north is likely to spread over a considerable portion of England.

FORECASTS

For the 24 hours ending at NOON on JULY 26TH 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	Southwesterly to Northwesterly winds, freshening; rain at times.
2 ENGLAND N.E.	Southwesterly and Westerly winds, freshening; changeable, some showers. Thunder locally.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	Northwesterly to Westerly winds, light or moderate; fine at first, some showers later, and perhaps thunder.
6 SCOTLAND WEST 7 ENGLAND N.W.	Westerly to Northwesterly winds, freshening; cool, changeable, some showers.
8 ENGLAND S.W.	Westerly and Northwesterly winds, moderate; fair at first, showery later.
9 IRELAND NORTH	Same as Nos. 6 and 7.
10 IRELAND SOUTH	Same as No. 8.
WARNINGS	None Issued.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29.89	63	61	NNW	6	o	2
Sumburgh Head	29.91	58	56	NW	2	bc	2
Stornoway... ...	29.98	60	59	WNW	3	o	3
Aberdeen	29.98	60	58	SE	2	cgp	2
Shields	29.99	64	61	NE	2	bc	2
Ardrossan ...							
Malin Head ...	30.08	60	59	WNW	4	bc	3
Belmullet	? 30.13	62	55	WSW	5	c	*
Holyhead	30.11	62	59	NNW	2	c	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	30.23	60	55	NW	4	cv	4
Scilly	30.14	65	63	NW	4	c	1
Jersey	30.08	68	61	WNW	3	c	3
Portland Bill ...	30.05	68	65	NW	1	om	3
Dungeness ...	29.94	69	64	NNW	3	c	3
North Foreland							
London (Westminster)	29.98	69	62	N	3	c	*
Yarmouth ...	29.94	63	60	NNW	4	bc	4
Rochefort ...	30.04	72	65	NW	4	bc	

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over the United Kingdom generally, but fine at some of the northern and eastern stations. Fine over the north and also over the southern parts of the Continent, but cloudy in most of the western and central countries, with rain at Paris and Breslau. Sky clearing later in the west and south of our Islands, but a little rain falling in the north, as well as in the west of Norway, and in several parts of France and Germany. Thunderstorms occurring at Cuxhaven and Lyons.

Temperature fallen in all the western parts of the United Kingdom as well as in France and Germany; risen in most other localities. Morning readings highest 86° at Biridian and Algeir, 84° at La Galle, and 83° at Trieste; above 70° over southern and eastern Europe generally, and above 65° in most of the northern and central countries. Lowest 56° at Belmullet and 59° at Sumburgh Head, Stornoway and Malin Head. Rising during day to 70° and upwards in many parts of Great Britain; exceeding 80° in the east and south of France and reaching 93° at Nice.

Wind light to moderate from the north or northwest over our Islands, the north and west of France and the Spanish Peninsula as well as in the southern parts of Scandinavia. Light from between South and West over Germany, Austria, Italy and Central France; calm in Sweden; light from the North at most of the Russian stations. Subsequently backing to the West on some parts of our own northern coasts; no important change occurring elsewhere.

Barometer highest 30.1 inches and upwards in an anticyclone extending from the Atlantic over Ireland, and also over the western parts of the Spanish Peninsula; 30.0 inches and upwards in another system over Southern Italy. Lowest 29.8 inches and less in a shallow depression over Denmark, Holland and North Germany and also in another shallow system over the south of Russia, 29.9 inches and less in a third over the Gulf of Genoa. Atlantic anticyclone subsequently spreading Eastwards over the southern parts of the United Kingdom, but new depression appearing off the north of Scotland.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 26th July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb	Temperature. Wet Bulb	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall.
		in.	°				Ins.	Ins.	°	°	°									Ins.
SCANDINAVIA.	Haparanda	29.67	62	SW	2	bc	29.59	-.13	64	60	+1	S	2	c	*	bc	*	70	55	–
	Hernösand	29.70	60	E	0	b	29.55	-.23	63	59	-1	S	4	b	*	b	*	75	57	–
	Stockholm	29.78	65	SSW	2	r	29.71	-.12	68	61	-2	WSW	4	bc	*	r	*	79	55	0.04
	Wisby	29.83	65	SSW	4	bc	29.87	+.01	65	60	0	WSW	6	o	*	bc	*	72	52	–
	Karlstad	29.78	66	WSW	2	bc	29.66	-.12	66	66	-2	SW	5	o	*	bc	*	*	*	–
	Bodö	29.58	59	E	0	c	29.45	-.32	62	56	+6	ESE	2	c	1	c	*	62	54	–
	Christiansund ...	29.63	60	WNW	1	c	29.32	-.48	58	55	-1	ESE	2	f	2	c	*	61	55	0.04
	Skudesnaes ...	29.82	61	SW	4	o	29.49	-.40	62	59	+2	WSW	10	o	5	o	*	63	55	*
	Færder (X'iania Fjord)	29.77	67	SW	5	c	29.56	-.22	63	62	-5	SW	6	r	4	c	*	72	63	0.04
	The Scaw (Skagen)	29.90	63	W	5	m	29.71	-.11	61	60	-5	SW	3	r	0	m	*	70	59	0.08
	Fanö	30.00	62	W	6	c	29.90	-.07	66	64	+2	SW	6	c	*	c	*	70	63	–
BRITISH ISLANDS	Sumburgh Head ...	29.70	55	WSW	2	o	29.51	-.19	51	49	-2	WNW	7	c	6	c.or	*	61	47	0.46
	Stornoway	29.66	60	SSW	4	o	29.86	+.11	56	53	-3	NW	6	o	6	o.kl	?	62	50	0.25
	Wick	29.74	61	NW	3	o	29.76	.00	56	53	-6	NW	7	bcu	4	o.r	*	67	49	0.37
	Nairn	29.73	66	W	2	bc	29.84	+.03	57	53	-6	W	3	b	3	bc	*	69	52	0.16
	Aberdeen	29.81	65	SSW	3	og	29.86	+.01	61	53	-1	W	5	bcq	3	og.r	1.9	68	57	0.10
	Leith	29.87	67	WSW	3	o	29.93	-.02	63	56	+4	WSW	4	b	*	o	*	70	56	0.09
	Shields	29.97	68	SW	3	c	29.95	-.07	64	60	+5	W	3	c	2	r.c	*	69	57	0.05
	Spurn Head ...	30.07	69	WSW	4	c	30.03	-.06	67	63	+6	W	5	bc	3	c	*	73	60	–
	Loughborough ...	30.14	74	WNW	3	bc	30.13	-.02	68	63	+7	W	4	c	*	bc.c.og	*	78	61	–
	Malin Head ...	29.87	61	WSW	5	f	30.04	+.09	55	54	-5	WNW	5	cp	4	f	*	62	54	0.19
	Belmullet	30.00	62	WSW	6	om	30.16	+.05	59	53	-2	WNW	1	o	*	om	*	62	53	0.03
	Donaghadee ...	29.98	70	W	5	cqp	30.09	+.05	60	56	+1	NW	5	bcq	4	cqp	*	73	55	0.05
	Liverpool (Bidston)	30.10	68	SW	3	c	30.10	-.03	63	61	+2	WSW	6	o	4	c	*	69	61	–
	Holyhead	30.12	62	SW	3	om	30.13	-.01	60	60	+3	W	3	cqp	2	c.om	*	62	56	–
	Parsonstown ...	30.10	67	W	1	o	30.18	+.04	59	57	+1	NW	1	r	*	o	0.0	69	58	0.01
	Valencia	30.20	64	SW	3	om	30.23	+.02	61	60	-1	W	3	opm	3	om	0.0	65	60	0.08
	Roche's Point ...	30.22	65	WSW	3	o	30.21	-.01	65	63	+2	WSW	3	o	3	c.o	*	66	60	–
	Pembroke (St. Ann's Hd.)	30.23	60	W	4	o	30.22	-.01	61	60	+1	W	5	bc	3	c.o	5.7	63	59	–
	Scilly	30.31	65	WSW	2	bc	30.31	+.05	62	62	0	W	2	m	1	bcf	13.8	68	59	–
	Jersey (St. Aubin's) ...	30.31	67	W	3	bcm	30.35	+.09	63	60	-1	W	3	c	3	bc.bcm	*	70	60	–
	Portland Bill ...	30.25	65	W	3	bc	30.29	+.06	62	61	+1	W	4	o	3	bc	*	67	56	–
	Dungeness	30.18	67	WSW	5	bc	30.20	+.04	66	64	+3	WSW	5	b	4	c.bc	*	71	59	–
	London (Brixton) ...	30.17	75	W	2	bo	30.22	+.03	67	68	+5	WSW	3	o	*	bc.b	10.1	79	60	–
	Oxford	30.20	65	WSW	3	b	30.20	+.01	67	64	+5	WSW	4	c	*	b	*	77	61	–
	Yarmouth	30.12	73	WSW	2	b	30.10	-.02	69	64	+9	W	5	bc	3	bc.b	*	74	59	–
GERMANY.	Cuxhaven	30.10	64	W	2	bc	30.03	+.06	66	63	0	SW	4	c	*	bc	*	70	61	–
	Berlin	30.03	73	NW	2	bc	30.14	+.25	65	61	0	WSW	2	b	*	bc	*	79	61	–
	Wiesbaden	*	*	*	*	*									*	*	*			
	Munich	30.25	60	W	6	o	30.37	+.27	60	58	0	W	4	o	*	o	*	68	57	0.87
FRANCE & NETHERLANDS.	The Helder ...	30.12	63	WSW	1	b	30.08	+.01	66	63	+2	SW	2	b	1	b	*	68	63	–
	Brussels	*	*	*	*	*	30.24	+.09	64	61	+2	SSW	5	b	*	b	*	74	54	–
	C. Gris Nez ...	30.20	64	W	4	bc	30.22	+.07	63	61	+1	W	3	b	3	bc	*	68	61	–
	Paris	30.24	73	WNW	2	bc	30.33	+.13	64	60	+2	S	1	b	*	bc	*	77	55	–
	Brest	30.35	64	N	1	b	30.36	+.09	59	58	0	E	0	b	?	b	*	66	52	–
	Lorient	30.30	69	WNW	3	b	30.36	+.10	59	59	0	E	1	b	2	b	*	73	55	–
	Rochefort	30.26	71	NW	3	b	30.30	+.03	66	63	+2	ENE	2	b	*	b	*	77	61	–
	Belfort	30.18	66	WSW	5	m	30.30	+.23	61	58	+3	W	1	m	*	m	*	71	54	0.04
	Lyons	30.23	69	NNE	1	bc	30.31	+.13	64	60	+4	NNW	2	b	*	bc	*	73	58	–
	Nice	29.95	75	SW	2	c	30.04	+.18	75	58	+2	E	1	b	0	c	*	84	66	–
	Perpignan	30.15	79	NW	3	b	30.21	+.04	75	65	+4	NW	2	b	-	b	*	82	66	–
	Biarritz	30.20	72	NNW	3	b	30.20	.00	68	66	0	E	0	b	2	b	*	73	64	–
SPAN. PEN.	Corunna																*			
	Lisbon	30.01	82	NNW	4	b	30.07	+.04	74	64	-3	NE	4	b	*	b	*	93	70	–
	Azores (P. Delgada)	30.36	69	NE	3	c	30.31	-.05	71	64	0	NE	4	b	3	c	*	79	64	–

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 0·8 hrs.

WEATHER CHARTS

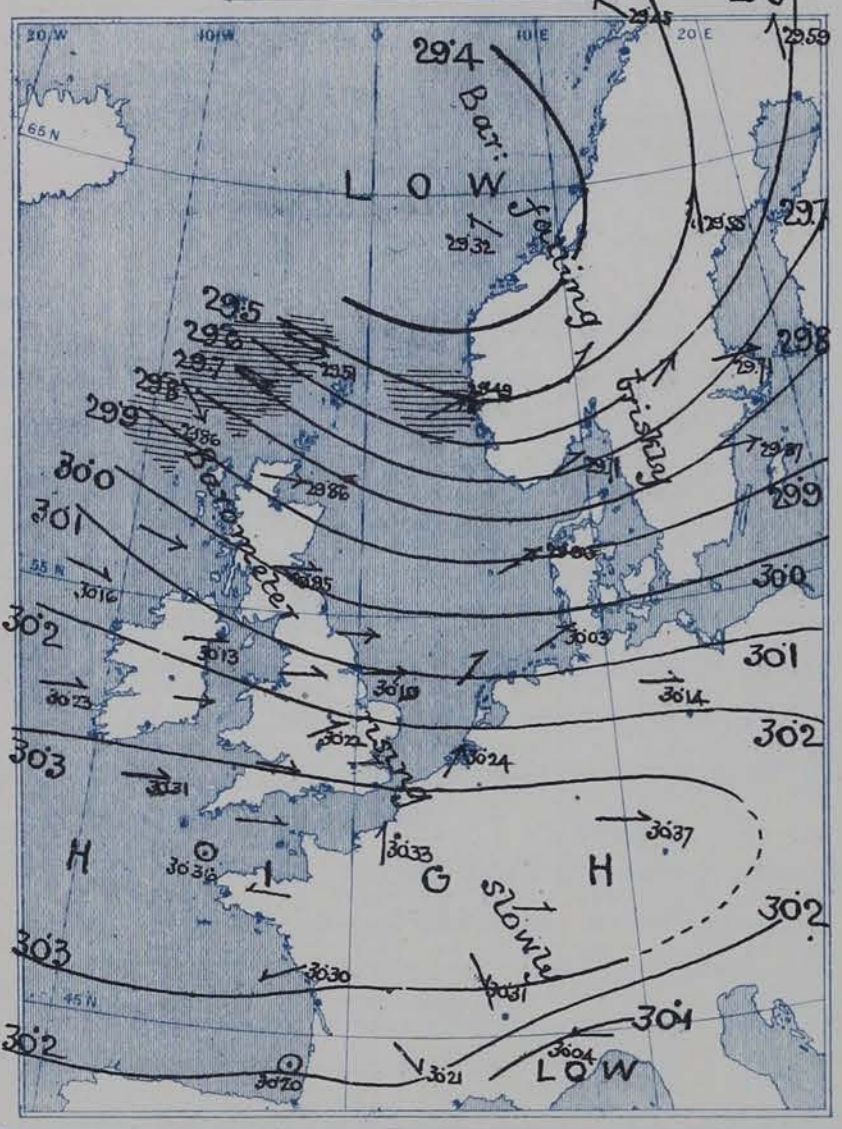
FOR Wednesday, 26th July, 1899.

BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

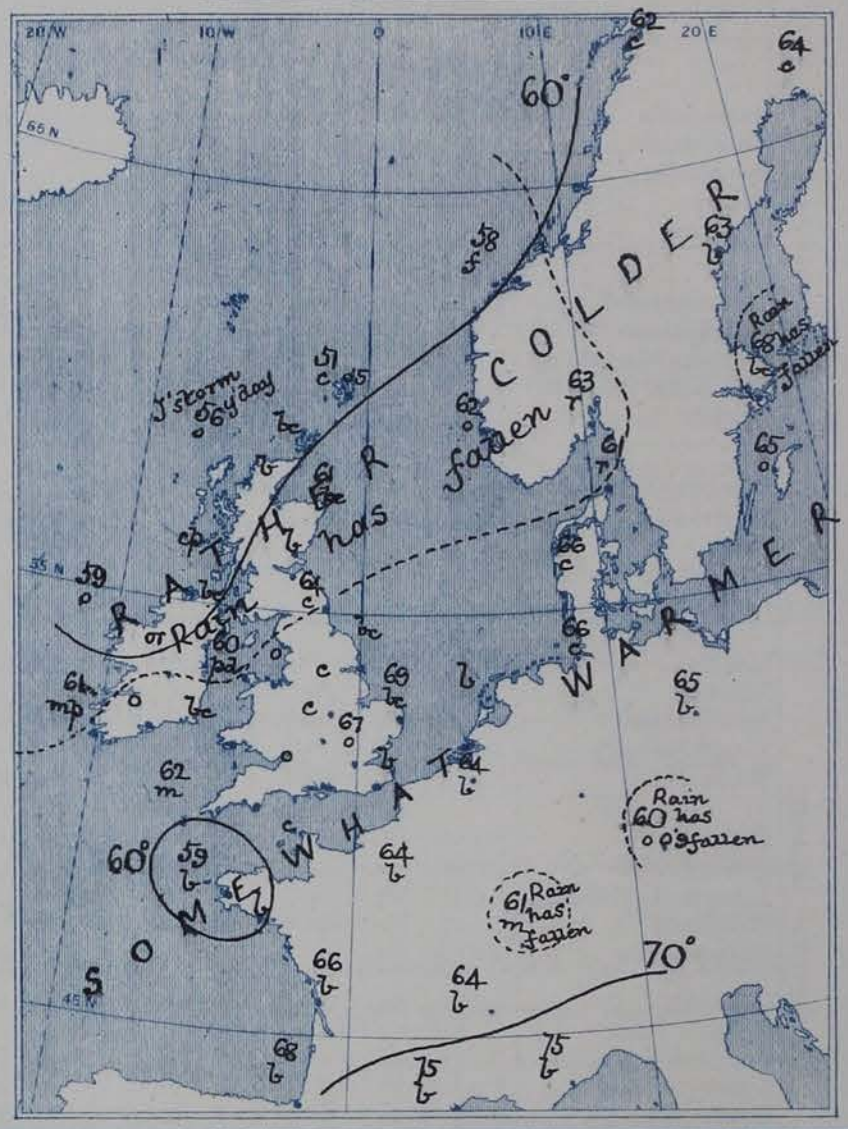
Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ : }

SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 . 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	--	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·3 in: and upwards in an anticyclonic band stretching from the Atlantic over the western parts of the English Channel and the northern and central parts of France to South Germany.
Lowest, 29·4 in: and less, in a large depression with its centre off the west of Norway.
Gradients rather steep over Denmark, the south of Sweden and the northern parts of Scotland and the North Sea
Barometer rising in our Islands, France, and Germany, falling briskly in Scandinavia and to a less extent in Denmark.

TEMPERATURE

Highest, (1) 75° at Nice and Perpignan, and 71° at Lisbon; (2) 69° at Yarmouth and 68° at Loughborough; (3) 68° at Stockholm.
Lowest, 51° at Lerwick Head, 55° at Malin Head, 56° at Stornoway and Wick, and 57° at Nairn.
During yesterday the thermometer rose to 70° and upwards in several parts of the United Kingdom, to 77° at Oxford, 78° at Loughborough and 79° in London.

WIND

Moderate to fresh from the W.ly over our Islands generally, but NW.ly on our extreme north and northeast coasts, and strong in force in the north of Scotland.
Strong from the SW.ly on the eastern shores of the North Sea, with a whole gale at Skudesnaes, light from the S.ly in the Gulf of Bothnia, and from the SE.ly in the west of Norway.
Variable or light from the E.ly in the west and south of France.

WEATHER

Fair or fine in most parts of Great Britain and also over France, the Netherlands, Germany and Sweden.
Showery over Ireland and the Irish Sea; cloudy in Denmark and the south of Norway, with rain at Faeroe and Skagen.
Since yesterday morning rain has fallen in most parts of Ireland and Scotland, as well as at the Scandinavian stations. Thunder and lightning occurred at Stornoway last evening.

SEA

Rough off the north of Scotland, and rather rough at Skudesnaes, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the night a large depression has moved rapidly eastwards along the extreme north of Scotland. The disturbance is now passing away towards Scandinavia, but the barric rise in the west appears to have slackened, and the general conditions are therefore still unsettled.

FORECASTS

For the 24 hours ending at NOON on 27th JULY, 1899.

DISTRICTS.	FORECASTS.
▼ 0 SCOTLAND NORTH	NW.ly winds, strong, to W.ly, moderate; changeable, some showers.
▼ 1 SCOTLAND EAST 2 ENGLAND N.E.	W.ly winds, fresh; changeable, some showers, thunder locally.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	W.ly and SW.ly winds, moderate or fresh; fair at first, some showers later, thunder locally.
▼ 6 SCOTLAND WEST 7 ENGLAND N.W.	Same as Nos 1 and 2.
8 ENGLAND S.W.	W.ly winds, moderate or fresh; cloudy, showery, thunder locally.
▼ 9 IRELAND NORTH 10 IRELAND SOUTH	W.ly to SW.ly winds, moderate; cloudy, rain at times.
WARNINGS	At 7.30 pm yesterday to districts 0, 6, and parts of 1 and 9. "HOIST SOUTH CONE".

Note.—The **South Cone,** *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29·89	57	57	S	2	o	2
Sumburgh Head	29·68	60	58	WSW	4	c	4
Stornoway... ...	29·78	62	60	WNW	4	o	4
Aberdeen	29·83	64	61	SSE	1	o q	1
Shields	30·01	68	64	SW	3	o	2
Ardrossan ...							
Malin Head ...	29·92	61	60	WSW	5	f	4
Belmullet	30·02	62	62	WSW	4	o m	*
Holyhead	30·14	62	60	SW	3	c	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	30·22	65	63	SW	4	o m	5
Scilly	30·29	66	62	W	2	bc	1
Jersey	30·29	68	65	W	4	bc	3
Portland Bill ...	30·25	66	62	W	4	bc	2
Dungeness ...	30·18	67	64	SW	4	c	3
North Foreland							
London (Westminster)	30·18	75	65	W	3	bc	*
Yarmouth ...	30·13	66	62	ESE	5	bc	2
Rochefort ...	30·25	76	68	NW	3	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fair or fine over Europe as a whole, but cloudy or dull over Ireland, the northern parts of Great Britain and the west of Norway, with rain at several of the Scotch stations. Dull also in many parts of Belgium, Germany, and Central France, with fog at Le Mans and Belfort. A little rain falling later over Ireland and Scotland generally, as well as at some of the Scandinavian and Danish stations, and a considerable quantity at Munich. Thunder and lightning occurring at Stornoway in evening.

Temperature changed rather irregularly. Morning readings highest 87° at Brindisi and Palermo, 86° at Sfax, and 82° at Lesina and Patras; above 70° over Southern Europe generally, and just touching that point at Stockholm; above 60° in many parts of the United Kingdom. Lowest (1) 53° at Sumburgh Head, and 56° at Bodö and Archangel; (2) 58° at Belfort and 59° at Le Mans. Rising during day to 75° and upwards in many parts of England, France, and Germany, exceeding 80° in the south of France, and reaching 93° at Lisbon.

Wind moderate to fresh from the W^ard or SW^ard over Ireland and the northern parts of Great Britain. Light from the NW^ard over the Central and southern parts of England, as well as over the greater part of France, the Netherlands, Denmark, and Germany; W^ly or SW^ly in Austria. Variable over Sweden and Russia, W^ly to S^ly in the west of Norway. NE^ly to E^ly over the Spanish Peninsula; SE^ly or S^ly over Southern Italy. Subsequently increasing from the W^ard or SW^ard on our extreme northern and northwestern coasts, and blowing a gale at night in the north of Scotland.

Barometer highest 30·2 ins. and upwards in an anticyclone lying over the Bay of Biscay, the west and north of France, and the southern parts of the United Kingdom. Lowest 29·7 ins. and less, in a depression off the north of Scotland, 29·8 ins. and less, in a shallow system over the Baltic Provinces. Scotch depression subsequently moving away to the northeastward, but larger and deeper disturbance moving rapidly eastwards along our extreme northern coasts at night.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Thursday, 27th July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M.S.L.	Change since Yesterday.	Temperature. Dry Bulb	Temperature. Wet Bulb	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
SCANDINAVIA.	Haparanda	29.35	63	SW	4	o	29.05	-.54	62	58	- 2	SE	2	o	•	o	•	68	55	0.59
	Hernösand	29.09	57	SSE	8	c	29.50	-.25	56	47	- 7	WNW	8	c	•	c	•	68	52	0.55
	Stockholm	29.47	62	NW	8	b	29.62	-.09	60	51	- 8	W	6	b	•	b	•	72	59	0.04
	Wisby	29.63	63	WNW	9	b	29.74	-.13	59	53	- 6	WNW	10	b	•	b	•	70	59	-
	Karlstad	29.51	64	WSW	6	b	29.69	+.03	58	57	- 8	W	4	b	•	b	•	•	•	0.12
	Bodö ... † ...	29.21	59	N	2	c	29.24	-.21	53	53	+ 1	N	7	r	3	c	•	63	52	0.79
	Christiansund † ...	29.52	52	WNW	6	r	29.72	+.40	52	47	- 6	WNW	8	r	4	r	•	57	50	0.79
	Skudesnaes † ...	29.86	55	NW	7	c	29.91	+.42	57	51	- 5	NW	6	c	4	c	•	63	50	•
	Færder (X'iania Fjord)	29.59	64	W	6	b	29.75	+.19	57	50	- 6	W	6	c	4	b	•	64	55	0.08
	The Scaw (Skagen)	29.78	57	WNW	8	m	29.82	+.11	58	52	- 3	WNW	7	bc	2	m	•	66	54	0.16
	Fanö	30.04	59	WNW	6	b	30.02	+.12	61	54	- 5	WNW	6	b	•	b	•	68	59	-
BRITISH ISLANDS	Sumburgh Head ...	29.81	54	WNW	5	c	29.93	+.42	54	52	+ 3	WNW	2	bc	3	bc.c	•	57	48	0.01
	Stornoway	29.97	58	WNW	5	o	30.09	+.23	58	55	+ 2	WNW	5	o	5	c.o	8.0	62	50	0.20
	Wick	29.96	55	NW	3	c	30.05	+.29	58	54	+ 2	NW	4	bc	2	c	•	61	48	0.04
	Nairn	30.00	57	NW	2	c	30.11	+.27	58	55	+ 1	W	3	bc	2	c	•	62	49	0.11
	Aberdeen	30.00	63	W	3	bc	30.11	+.25	60	52	- 1	WNW	4	bc q	2	bc q	12.6	65	52	-
	Leith	30.08	61	WSW	3	c	30.17	+.24	64	56	+ 1	W	2	b	•	c	•	65	51	-
	Shields	30.12	60	W	3	c	30.18	+.23	59	55	- 5	W	4	bc	2	c	•	69	50	-
	Spurn Head ...	30.13	66	WNW	4	bc	30.23	+.20	59	54	- 8	WNW	5	b	4	bc	•	70	54	-
	Loughborough ...	30.20	61	W	2	o	30.32	+.19	60	55	- 8	WNW	2	cw	•	o.c. a.bc	•	71	49	-
	Malin Head ...	30.16	57	WNW	6	c q p	30.36	+.22	57	56	+ 2	WNW	5	o p	4	bc.c q p	•	59	54	-
	Belmullet	30.28	61	W	4	b	30.39	+.23	58	54	- 1	WNW	4	o	•	c.b	•	62	54	-
	Donaghadee ...	30.18	64	NW	3	c	30.29	+.20	58	54	- 2	NNW	5	c q	4	c	•	65	50	-
	Liverpool (Bidston)	30.21	62	W	2	bc	30.32	+.22	59	54	- 4	W	5	b	5	bc	•	64	55	0.02
	Holyhead	30.21	62	SW	1	c	30.35	+.22	61	58	+ 1	W	3	bc	2	c.bc	•	63	54	0.01
	Parsonstown ...	30.27	63	NW	1	c	30.46	+.28	56	54	- 3	W	1	o	•	c	5.3	67	49	-
	Valencia	30.35	61	NW	3	c	30.46	+.23	59	53	- 2	NW	3	o	3	o.c	3.5	63	53	-
	Roche's Point ...	30.28	66	NNW	3	bc	30.43	+.22	59	55	- 6	N	1	b	1	c.o.bc	•	70	53	-
	Pembroke (St. Ann's Hd.)	30.25	60	NNW	5	f	30.40	+.18	60	59	- 1	NNE	3	b	2	f	1.5	62	55	0.02
	Scilly	30.32	63	NSW	2	o m	30.37	+.06	62	59	0	N	4	bc	1	f.o m	2.6	69	58	-
	Jersey (St. Aubin's) ...	30.34	66	NNW	4	c q	30.34	-.01	65	64	+ 2	W	3	o m	3	o.c p	•	67	62	0.01
	Portland Bill ...	30.27	64	W	4	bc	30.34	+.05	63	59	+ 1	E	2	c	3	b, bc	•	68	57	-
	Dungeness	30.18	66	SW	6	b	30.30	+.10	66	60	0	N	3	bc	2	b	•	69	60	-
	London (Brixton) ...	30.20	74	W	3	c	30.32	+.10	63	54	- 4	NW	3	b	*	bc o p.b	9.1	82	59	-
	Oxford	30.22	66	WSW	5	o	30.34	+.14	61	54	- 6	NNW	2	b	*	c.o p	*	75	55	0.01
	Yarmouth	30.13	71	WNW	2	c	30.24	+.14	61	55	- 8	WNW	4	bc	3	bc.c	*	76	53	-
GERMANY.	Cuxhaven	30.07	65	WNW	4	c	30.06	+.03	62	58	- 4	WNW	5	bc	•	c	•	73	59	-
	Berlin	30.06	74	WSW	2	o	30.08	-.06	60	59	- 5	NW	2	r	•	o	•	79	61	0.08
	Wiesbaden	•	•	•	•	•	30.18		63	60		SW	3	bc	•	•	•	81	59	-
	Munich	30.33	64	Z	0	b	30.30	-.07	65	61	+ 5	W	3	b	•	b	•	73	55	-
FRANCE & NETHERLANDS.	The Helder ...	30.13	64	WSW	1	r	30.17	+.09	61	55	- 5	WNW	2	bc	2	r	•	70	61	0.04
	Brussels	•	•	•	•	•	30.26	+.02	60	59	- 4	NW	3	r	•	b	•	76	59	-
	C. Gris Nez ...	30.21	64	WSW	5	bc	30.27	+.05	62	59	- 1	NE	2	c	2	bc	•	66	59	-
	Paris	30.26	77	NNW	2	b	30.31	-.02	64	61	0	NNW	2	m	•	b	•	82	62	-
	Brest	30.34	64	SW	1	c	30.34	-.02	62	61	+ 3	N	1	o	0	c	•	66	57	-
	Lorient	30.32	72	W	4	bc	30.33	-.03	61	60	+ 2	NNE	3	o	2	bc	•	77	59	-
	Rochefort	30.24	72	NW	4	bc	30.24	-.06	66	62	0	ENE	3	b	•	bc	•	81	63	-
	Belfort	30.20	73	W	2	m	30.26	-.04	63	60	+ 2	Z	0	m	•	m	•	78	56	-
	Lyons	30.23	75	NNW	1	b	30.28	-.08	?	64	?	N	1	b	•	b	•	78	62	-
	Nice	30.10	78	SW	2	b	30.12	+.08	77	62	+ 2	SW	1	b	0	b	•	90	70	-
	Perpignan	30.17	82	NW	1	b	30.19	-.02	73	66	- 2	SW	1	m	•	b	•	89	66	-
	Biarritz	30.18	74	N	3	b	30.19	-.01	68	67	0	SW	2	b	2	b	•	81	64	-
SPAN. PEN.	Corunna																•			
	Lisbon	30.05	86	NNW	4	c	30.07	.00	84	66	+ 10	NE	2	bc	•	c	•	97	74	-
	Azores (P. Delgada)	30.32	69	NE	4	c	30.31	.00	69	65	- 2	NE	2	o		c	•	75	64	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 5·7 hrs.

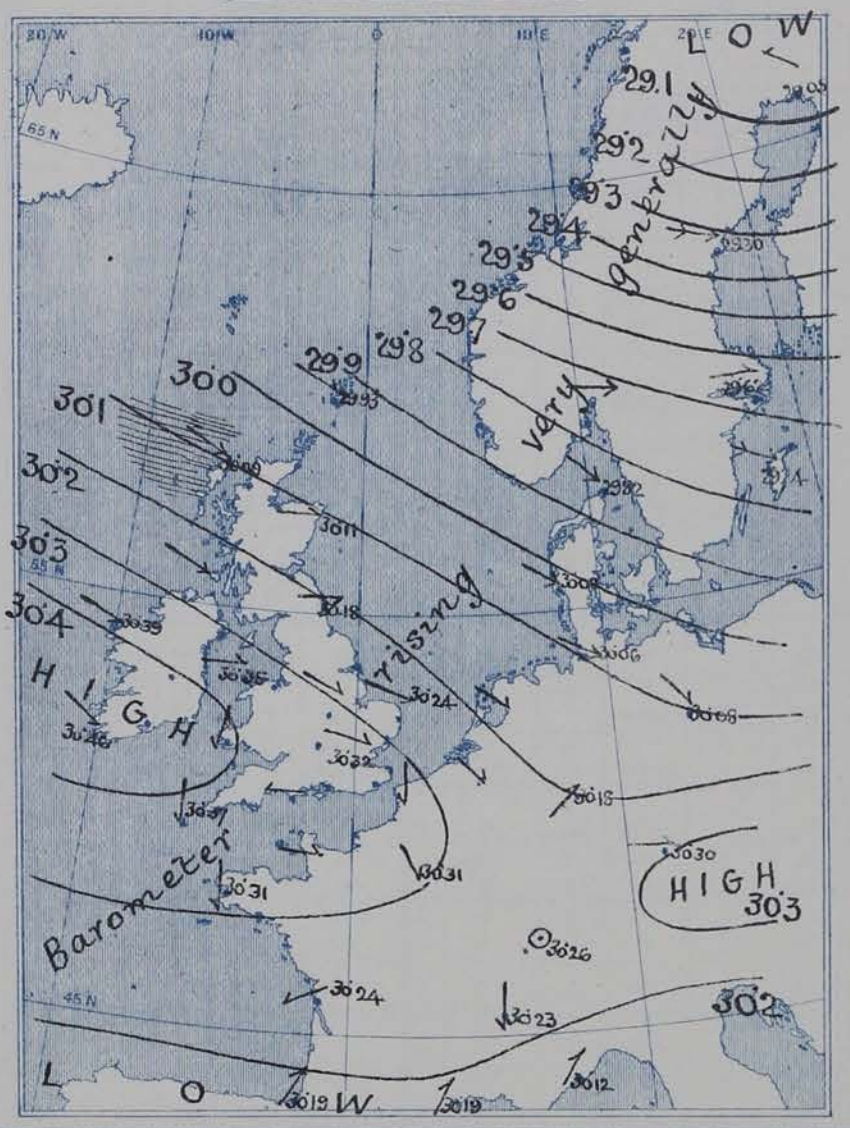
WEATHER CHARTS

FOR Thursday, 27th July, 1899.

BAROMETER, WIND AND SEA.

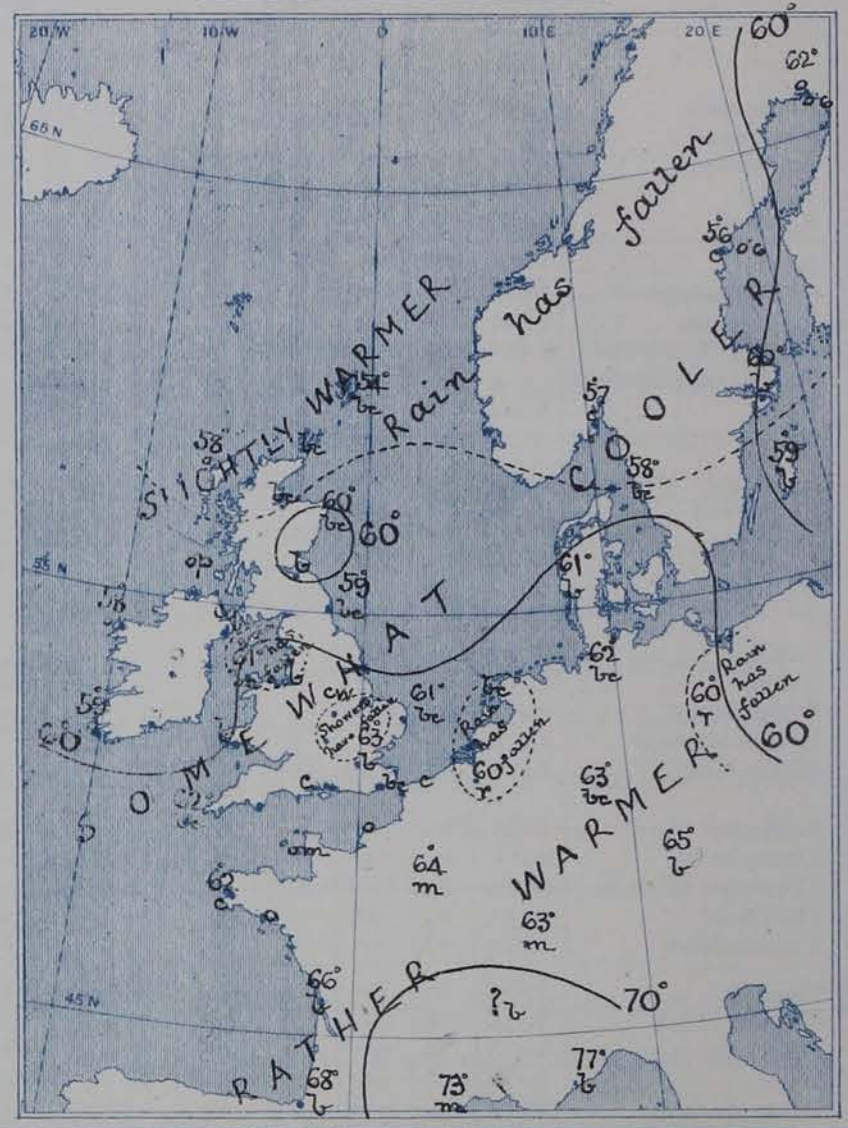
BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ : }
SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29·896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29·927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	--	—	—	—	—
Belmullet	29·889	57·5	54·9	62·2	53·8	—	—	—	—	3·59	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	2·82	—	—
Holyhead	29·909	58·1	55·8	63·7	54·2	83	1894	43	1888	2·37	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·99	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·98	136·5	27
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	4·23	153·8	31
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	3·18	—	—
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	2·53	199·7	40
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·47	—	—
Prawle Point	29·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·39	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·54	230·0	48
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·39	—	—
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·05	—	—
LONDON	29·953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·48	162·0†	33†
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·68	185·5	38
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·62	189·6	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·4 ins: and upwards in the southern parts of Ireland; 30·1 ins: and upwards in an anticyclone covering the greater part of Western Europe.

Lowest, 29·1 ins: and less, in a large and rather deep depression with its centre near Haparanda.

Gradients slight over our Islands, France, and Germany; rather steep over Scandinavia. Barometer rising generally.

TEMPERATURE

Highest, 84° at Lisbon, ~~80° at Lyons~~, 77° at Nice, 73° at Perpignan, 68° at Biarritz, and 66° at Dungeness and Rochefort.
Lowest, 54° at Scarborough Head, 56° at Hernösand and Parsonstown, and 57° at Leuchars and Malin Head.
During yesterday the thermometer rose to between 70° and 75° at several of the English stations, to 76° at Yarmouth and to 82° in London.
On many parts of our western and extreme northern coasts it failed to reach 65°.

WIND

W. or NW. over all the more northern parts of our Islands and the Continent; moderate to fresh in force on our own coasts, but strong to a gale in Sweden and Denmark.
Light from the N. over the southern parts of the United Kingdom and the north of France, but W. at some of the Channel stations; SW. in the south of France.

WEATHER

Fair or fine over Western Europe as a whole, but dull on our own extreme west and northwest coasts, with showers at Malin Head. Rain is falling at Brussels and Berlin.
Light showers fell yesterday at some of the English stations and also in the north of Scotland. Rain occurred also in Sweden and Denmark, the largest amount reported being 0·6 in: at Haparanda and Hernösand.

SEA

Moderate to smooth generally, but rather rough at Stornoway and Liverpool

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday off the Norwegian coast is travelling away to the northeastward, and anticyclonic conditions have again become general. Fine dry weather is therefore likely to continue for a time in most places.

FORECASTS

For the 24 hours ending at NOON on 28TH JULY, 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W. and NW. winds, fresh; fair at first, showery later.
1 SCOTLAND EAST	W. winds, light or moderate; fine generally, warmer.
2 ENGLAND N.E.	NW. winds, light or moderate; fine, warm.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	W. and NW. winds, moderate; fair generally.
7 ENGLAND N.W.	
8 ENGLAND S.W.	N. winds, light or moderate; fine generally.
9 IRELAND NORTH	W. and NW. winds, fresh; cloudy some showers.
10 IRELAND SOUTH	Same as Nos. 6 and 7.
WARNINGS	At 10·0 am today to districts 0, 6, and parts of 1. and 9 "Lower Cone".

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29.71	59	54	WNW	9	b	7
Sumburgh Head	29.74	56	52	WNW	6	bc	6
Stornoway... ...	29.95	60	55	NW	6	o	6
Aberdeen	29.98	61	53	NW	5	bcqf	3
Shields	30.08	65	58	WSW	4	c	2
Ardrossan ...							
Malin Head ...	30.13	59	55	W	5	bc	4
Belmullet	30.24	60	57	W	4	c	*
Holyhead	30.20	62	59	NW	1	c	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	30.80	62	58	WNW	3	o	4
Scilly	30.32	66	64	WSW	2	of	1
Jersey	30.36	66	63	W	3	o	3
Portland Bill ...	30.28	68	65	WSW	4	b	4
Dungeness ...	30.20	68	66	SW	6	b	5
North Foreland							
London (Westminster)	30.19	80	67	WSW	3	bc	*
Yarmouth ...	30.11	76	67	WNW	3	bc	2
Rochefort ...	30.28	79	70	WNW	2	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fair or fine over the greater part of Europe, but showery in Ireland and cloudy over Denmark and the south of Scandinavia, with rain at Valencia and the Scaw. Rain falling later in the north of Scotland and also in many parts of Scandinavia and Denmark; and slight showers at some of the English stations.

Temperature fallen in the extreme west and north of our Islands and also in Scandinavia, Russia, and Italy, risen in most other localities. Morning readings highest 85° at Athens, 83° at Patras and 82° at Brindisi, Trieste, and Toulon; above 70° over southern Europe generally, as well as at some of the Baltic stations. Lowest, 51° at Sumburgh Hd., 55° at Malin Hd., and 56° at Stornoway and Wick. Daily maxima below 65° on several parts of our own western and extreme northern coasts, but thermometers reaching 76° at Yarmouth and 82° in London. Exceeding 80° also in several parts of France and Germany, and reaching 90° at Nice and 97° at Lisbon.

Wind moderate to fresh from the W^ly over our Islands generally, but strong to a gale from the NW^ly in the north of Scotland; strong from the SW^ly on the eastern shores of the North Sea, with a gale at Skudesnaes; light from the S^ly over the Gulf of Bothnia, and from the SE^ly over Finland and the west of Norway. NW^ly to N^ly over Austria, Italy, and the Adriatic, but S^ly or SW^ly in Greece. E^ly or NE^ly over the Spanish Peninsula and the west and south of France. Moderating later in the north of Scotland and backing to the SW^ly at many of the English stations.

Barometer highest 30.2 in: to 30.3 in: and more in an anticyclone extending from the Atlantic over the south of our Islands, France, and South Germany. Lowest 29.4 in: and less in a large and rather deep depression with its centre near Christiansund. Depression subsequently moving northeastwards; barometer rising briskly on our northern coasts, but falling slightly at our southern and the French stations.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on *Friday, 28th July,* 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M.S.L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb	Temperature. Wet Bulb	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
SCANDINAVIA.	Haparanda	29.08	54	W	2	0	29.30	+.25	52	47	-10	W	2	f	•	0	•	54	52	0.67
	Hernösand	29.63	54	W	6	b	29.66	+.36	54	46	-2	WNW	5	bc	•	b	•	64	43	-
	Stockholm	29.74	61	SW	0	b	29.80	+.18	57	48	-3	N	4	0	•	b	•	68	57	-
	Wisby	29.79	62	WNW	4	c	29.82	+.08	59	55	0	W	6	c	•	c	•	64	54	-
	Karlstad	29.75	63	WNW	1	b	29.78	+.09	60	49	+2	ENE	2	b	•	b	•	..	+	-
	Bodö	29.41	51	W	7	f	29.51	+.27	49	44	-4	W	6	c	4	f	•	54	46	0.28
	Christiansund ...	29.84	51	WNW	4	f	29.71	-.01	52	50	0	WSW	1	f	2	f	•	52	48	0.51
	Skudesnaes ...	30.02	56	NW	4	c	29.82	-.09	54	53	-3	S	2	f	2	c	•	59	50	+
	Færder (X'iania Fjord)	29.80	66	NW	4	b	29.83	+.08	61	54	+4	WSW	4	c	3	b	•	66	55	-
	The Scaw (Skagen)	29.89	59	WNW	6	b	29.90	+.08	58	52	0	WNW	6	0	2	b	•	68	54	-
	Fanö	30.10	57	WNW	6	c	30.08	+.06	61	57	0	W	7	c	•	c	•	66	57	-
BRITISH ISLANDS	Sumburgh Head ...	29.98	54	WNW	2	c	29.81	-.12	52	52	-2	WNW	6	f	6	c.f	•	58	46	0.42
	Stornoway	30.10	60	WNW	6	0	30.08	-.01	59	57	+1	WNW	5	0	5	c.0	4.2	61	53	0.15
	Wick	30.07	56	NW	5	c	29.97	-.08	60	55	+2	NW	7	cu	4	c	•	63	53	0.10
	Nairn	30.14	61	W	3	c	30.09	-.02	60	55	+2	W	3	c	2	c	•	65	55	-
	Aberdeen	30.15	63	W	2	c	30.10	-.01	59	53	-1	SW	2	0g	1	cq.c	q.0	67	57	-
	Leith	30.23	60	W	3	b	30.21	+.04	57	55	-1	WSW	2	0	•	b	•	68	54	0.03
	Shields	30.26	62	W	4	bc	30.22	+.04	56	54	-3	WSW	4	p	2	c.bc	•	66	54	-
	Spurn Head ...	30.29	65	W	3	c	30.28	+.05	61	56	+2	WNW	5	c	4	c	•	67	55	-
	Loughborough ...	30.35	65	WNW	3	bc	30.35	+.03	60	56	0	WNW	3	bcw	•	c.bc	•	68	50	-
	Malin Head ...	30.32	58	W	5	0qp	30.31	+.05	57	55	0	W	5	0p	4	0.qp	•	58	55	
	Belmullet	30.45	60	WNW	1	0	30.43	+.04	59	54	+1	WSW	3	0	•	0	•	66	54	-
	Donaghadee ...	30.36	62	NW	2	c	30.32	+.03	56	54	-2	WNW	3	c	2	c	•	66	50	-
	Liverpool (Bidston)	30.37	62	W	4	b	30.38	+.06	60	56	+1	W	3	b	3	b	•	63	55	-
	Holyhead	30.39	60	W	2	c	30.39	+.04	60	57	-1	W	2	c	1	c	•	64	54	-
	Parsonstown ...	30.43	62	W	1	0	30.44	-.02	58	55	+2	W	1	0	•	0	0.0	63	48	-
	Valencia	30.48	61	NNW	3	c	30.47	+.01	60	54	+1	2	0	0	2	c	3.5	63	54	-
	Roche's Point ...	30.43	65	N	2	bc	30.44	+.01	60	56	+1	N	1	bc	1	bc	•	68	52	-
	Pembroke (St. Ann's Hd.)	30.43	58	N	2	bc	30.43	+.03	61	57	+1	NE	3	b	2	bc	13.0	63	54	-
	Scilly	30.42	62	NNE	4	bc	30.40	+.03	62	59	0	NNE	3	bc	1	bc	13.2	67	56	-
	Jersey (St. Aubin's) ...	30.35	66	S	3	bcm	30.37	+.03	67	62	+2	NNW	2	bw	2	bcm	•	73	54	-
	Portland Bill ...	30.34	65	WNW	3	b	30.39	+.05	63	57	0	ENE	2	b	2	b	•	69	53	-
	Dungeness	30.32	65	SW	3	bc	30.85	+.05	63	59	-3	NNW	3	b	2	bc	•	72	51	-
	London (Brixton) ...	30.34	70	NW	3	bc	30.38	+.06	61	55	-2	NW	1	b	*	bc	12.6	73	50	-
	Oxford	30.37	62	N	2	b	30.38	+.04	61	55	0	WNW	2	b	*	b	•	71	50	-
	Yarmouth	30.29	66	NE	2	b	30.29	+.05	62	57	+1	WNW	3	b	2	b	•	67	51	-
GERMANY.	Cuxhaven	30.15	63	NNW	5	bc	30.18	+.12	61	57	-1	W	4	c	•	bc	•	64	57	-
	Berlin	30.10	63	WSW	2	b	30.19	+.11	59	55	-1	WSW	3	0	•	b	•	72	54	0.20
	Wiesbaden	•	•	•	•	•	30.32	+.14	60	54	-3	N	3	b	•	•	•	73	50	-
	Munich	30.24	69	SW	6	c	30.32	+.02	60	56	-5	E	4	0	•	c	•	77	57	-
FRANCE & NETHERLANDS.	The Helder ...	30.27	61	NW	2	bc	30.24	+.07	65	60	+4	W	2	bc	2	bc	•	66	59	-
	Brussels	•	•	•	•	•	30.34	+.08	61	55	+1	W	1	b	•	b	•	69	46	-
	C. Gris Nez ...	30.31	64	E	1	bc	30.32	+.05	60	58	-2	NE	2	m	2	bc	•	70	57	-
	Paris	30.29	72	NNE	2	b	30.36	+.05	57	53	-7	ENE	2	bc	•	b	•	75	50	-
	Brest	30.34	68	N	2	b	30.31	-.03	57	56	-5	NNE	1	bc	1	b	•	75	52	-
	Lorient	30.29	74	NNW	1	c	30.31	-.02	60	57	-1	ENE	4	c	3	c	•	82	59	-
	Rochefort	30.17	79	NNE	3	b	30.19	-.05	68	64	+2	ENE	4	b	•	b	•	82	64	-
	Belfort	30.15	73	W	3	bc	30.22	-.04	60	54	-3	ENE	4	0	•	bc	•	80	58	-
	Lyons	30.16	79	N	1	b	30.19	-.04	65	62	+3	N	2	b	•	b	•	83	62	-
	Nice	30.06	77	SW	2	b	30.06	-.06	74	64	-3	E	1	b	0	b	•	88	66	-
	Perpignan	30.09	84	W	2	b	30.10	-.09	74	66	+1	SW	1	b	•	b	•	93	66	-
	Biarritz	30.13	75	NNW	3	b	30.13	-.06	69	67	+1	SW	4	0	2	b	•	77	68	-
SPAN. PEN.	Corunna																•			
	Lisbon														•		•			
	Azores (P. Delgada)	30.27	70	NE	3	c	30.21	-.10	71	65	+2	NE	4	c	3	c	•	75	66	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

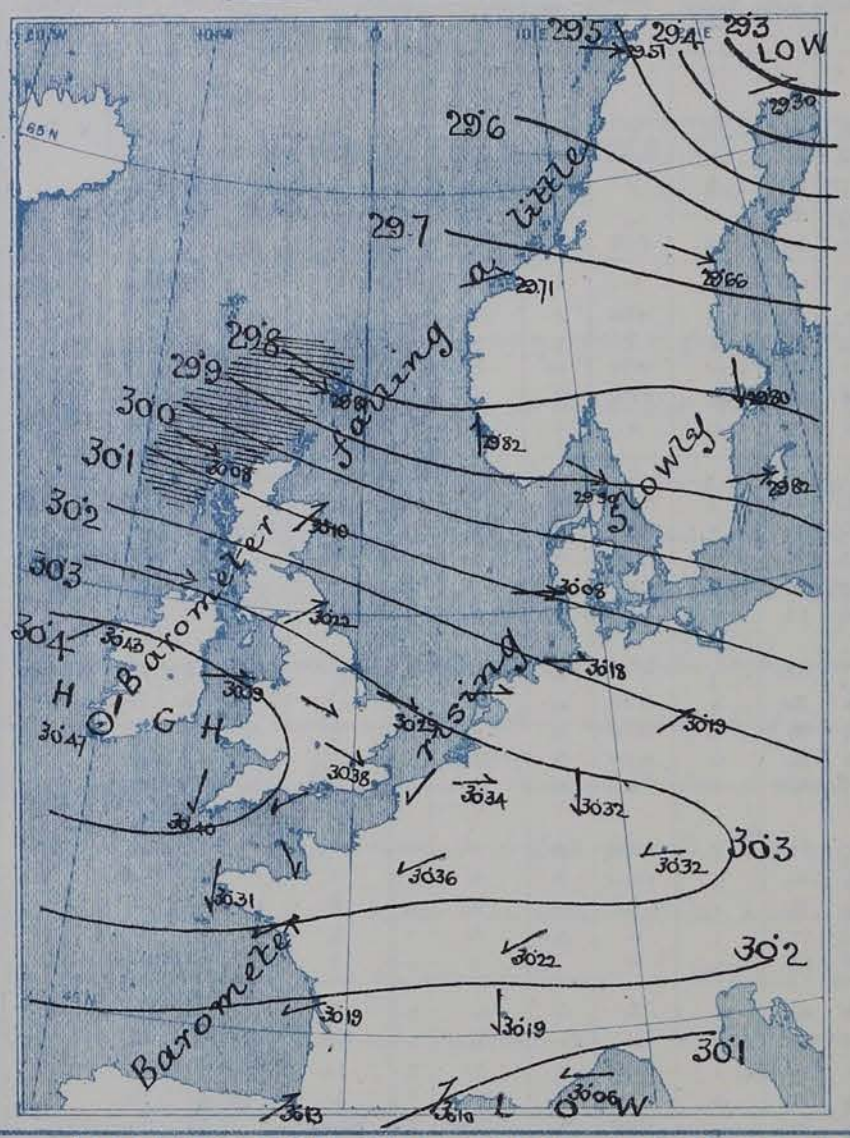
Bright Sunshine yesterday Southport 12.5 hrs.

WEATHER CHARTS

FOR Friday, 28th July, 1899.

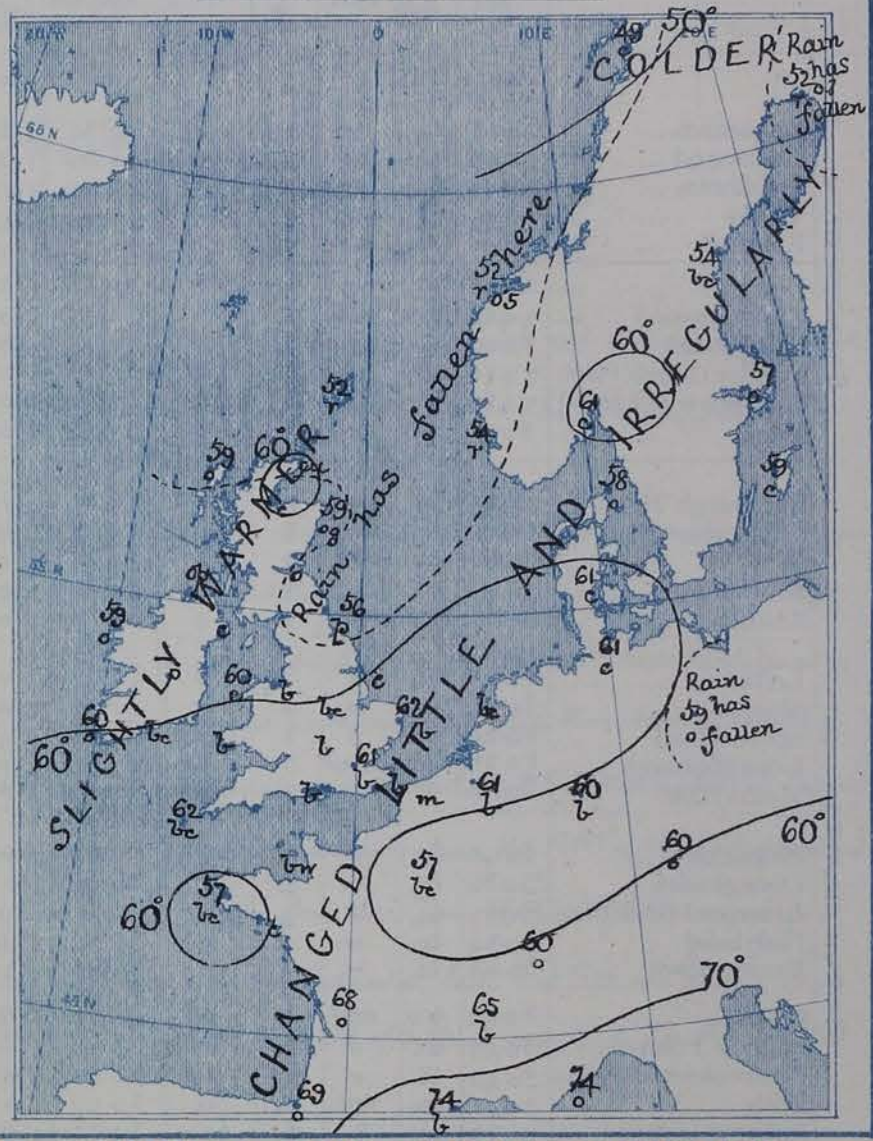
BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.
Force above 10 : *Force 5 to 7* : *Force 8 to 10* : *Force 1 to 4* : Calm
SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29·896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29·927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	—	—	—	—	—
Belmullet	29·889	57·5	54·9	62·2	53·8	—	—	—	—	3·59	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	2·82	—	—
Holyhead	29·909	58·1	55·8	63·7	54·2	83	1894	43	1888	2·37	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·99	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·98	136·5	27
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	4·23	153·8	31
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	3·18	—	—
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	2·53	199·7	40
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·47	—	—
Prawle Point	29·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·39	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·54	230·0	48
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·39	—	—
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·05	—	—
LONDON	29·953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·48	162·0†	33†
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·68	185·5	38
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·62	189·6	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·4 in: and upwards over Ireland, Wales, and the southwest of England; 30·2 in: and upwards in an anticyclone extending from the Atlantic over the whole of Ireland, England, the Netherlands, Germany, and the northern parts of France.
Lowest, 29·3 in: and less, in a depression over Lapland, 29·8 in: and less, in a small secondary system which is skirting the Shetlands.
Gradients slight generally, but moderate over the northern parts of Scotland and Scandinavia.
Barometer falling a little in Ireland, Scotland, and the west of Norway, but rising elsewhere.

TEMPERATURE

Highest, 74° at Nice and Perpignan, 69° at Biarritz, 68° at Rochefort, 67° at Jersey, and 65° at Lyons.
Lowest, 49° at Röö, 52° at Haparanda, Christiansund, and Sumburgh Head, and 54° at Hornösand and Skudesnaes.
During yesterday the thermometer rose to between 70° and 73° at several of our southern stations. On many parts of our western and extreme northern coasts it did not reach 65°.

WIND

W. or NW. in all the more northern parts of our Islands, and also over the greater part of Scandinavia, Denmark and North Germany, but S. or SW. in the west of Norway; strong in force in the north of Scotland, as well as in Denmark and the south of Sweden.
N. on our own southern coasts; E. or NE. over the greater part of France and South Germany, but SW. at Biarritz and Perpignan.

WEATHER

Fine over the greater part of England, France, and the Netherlands, but dull at Biarritz. A solar halo is reported at Spurn Head.
Cloudy or dull elsewhere, with rain in the Shetlands and west of Norway, as well as at Haparanda; showers are falling at Shields and Malin Hd.
Since yesterday morning rain has fallen over the northern parts of Scotland and Scandinavia and also at Berlin.

SEA

Rough off the north of Scotland, and moderate on several parts of our northern coasts, but smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Anticyclonic conditions still hold in all the more southern parts of the United Kingdom, but in the extreme north the weather is being affected by a small depression which is skirting the Shetlands. The fall of the barometer on our western coasts seems to indicate the early approach of further depressions from the Atlantic.

FORECASTS

For the 24 hours ending at NOON on 29th JULY, 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NW. strong to a gale at first, moderating and backing later, squally, showery.
1 SCOTLAND EAST	W. winds, freshening; changeable some showers.
2 ENGLAND N.E.	
3 ENGLAND EAST	W. and NW. winds, moderate; fine at first, cloudy later, probably some showers.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	W. to NW. winds, strong; squally, showery.
7 ENGLAND N.W.	Same as Nos 1 and 2
8 ENGLAND S.W.	N. winds, light; fine generally.
9 IRELAND NORTH	Same as No 6
10 IRELAND SOUTH	N. to W. winds, light; cloudy, local showers.
WARNINGS	At 7·20 pm yesterday to districts 0.6 and parts of 1 and 9. "Hoist North Cone"

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29·99	59	52	NNW	6	b	3
Sumburgh Head	29·98	55	54	WNW	8	c	3
Stornoway... ...	30·13	61	50	WNW	5	o	5
Aberdeen	30·16	65	55	W	4	cq	2
Shields	30·26	63	57	W	4	c	2
Ardrossan ...							
Malin Head ...	30·31	58	56	W	5	o	4
Belmullet	30·45	62	56	W	3	o	*
Holyhead	30·40	64	59	W	3	bc	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	30·49	63	55	WNW	2	c	4
Scilly	30·40	63	58	NNE	4	bc	1
Jersey	30·35	72	65	NNW	3	bc	3
Portland Bill ...	30·36	67	61	WNW	2	b	2
Dungeness ...	30·31	71	62	NNE	3	bc	2
North Foreland							
London (Westminster)	30·33	67	56	NNW	3	bc	*
Yarmouth ...	30·28	66	57	NW	3	bc	3
Rochefort ...	30·23	80	73	NNW	3	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over western and southern Europe generally, but dull on our own extreme west and northwest coasts, with showers at Malin Head. Fine in the south of Sweden, but cloudy or dull over the northern and central countries as a whole, with rain in the west of Norway and also at Berlin and Brussels. Rain falling later in the north of Scotland and also at Haparanda; no important change occurring elsewhere.

Temperature fallen in our Islands and the northern parts of the Continent, changed irregularly elsewhere. Morning readings highest 84° at Lisbon, 82° at San Fernando and Barcelona, and 81° at Athens; above 70° over Southern Europe generally. Lowest 52° at Christiansund, 53° at Bodö, 54° at Sumburgh Head, and 56° at Hernösand and Paramaribo. Daily maxima below 65° on several parts of our own western and extreme northern coasts, but thermometer exceeding 70° in the south of England. Exceeding 80° in the west and south of France, and reaching 93° at Lisbon.

Wind light to fresh from the W. or NW. in all the more northern parts of the United Kingdom, and also over the Netherlands and North Germany, strong to a gale from the same quarters over Scandinavia and Denmark; moderate to fresh from SW. in Finland. Light from the N. over the southern parts of the United Kingdom and the north of France; SW. in the extreme south of France; E. or NE. over the Spanish Peninsula. N. (NE. to NW.) over Italy, Austria, and the south of Russia. No important change occurring later, but gale in Scandinavia tending to subside.

Barometer highest 30·4 ins. and upwards over the southern parts of Ireland; 30·1 ins. and upwards in an anticyclone covering the greater part of western, central and southern Europe. Lowest 29·1 ins. and less, in a large and rather deep depression, with its centre near Haparanda, 29·8 ins. and less, in a shallow system over Asia Minor. Depression in north subsequently moving northeastwards, but secondary disturbance beginning to approach the north of Scotland in evening.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Saturday, 29th July, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M.S.L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb	Temperature. Wet Bulb	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
SCANDINAVIA	Haparanda	29.47	52	E	0	0	29.56	+.26	54	47	+ 2	W	2	b	•	0	•	63	50	-
	Hernosand	29.64	54	E	0	b	29.64	-.02	55	52	+ 1	W	2	0	•	b	•	66	46	0.04
	Stockholm	29.75	57	SSW	2	b	29.73	-.07	64	57	+ 1	SW	2	b	•	b	•	66	52	—
	Wisby	29.80	62	WSW	4	c	29.76	-.06	60	56	+ 1	NW	4	b	•	c	•	64	54	—
	Karlstad	29.72	59	SW	2	bc	29.66	-.12	59	56	- 1	SW	2	0	•	bc	•	•	•	—
	Bodö	29.54	?	W	6	0	29.56	+.05	49	46	0	W	6	c	3	0	•	52	45	0.20
	Christiansund ...	29.68	54	WSW	2	r	29.59	-.12	54	53	+ 2	WSW	3	r	3	r	•	55	52	0.79
	Skudesnaes ...	29.86	55	WNW	6	0	29.73	-.09	57	57	+ 3	NW	4	of	3	r.0	•	57	52	•
	Færder (Christiania Fjord)	29.71	63	SSW	4	bc	29.67	-.16	63	55	+ 2	WSW	4	c	3	bc	•	63	59	-
	The Scaw (Skagen)	29.78	58	WNW	4	c	29.73	-.17	60	57	+ 2	WNW	6	0	2	c	•	63	54	-
	Fanö	30.00	60	W	8	c	29.90	-.18	59	58	- 2	W	6	r	•	c	•	63	59	0.32
BRITISH ISLANDS	Sumburgh Head ...	29.78	54	WNW	3	f	29.78	-.03	54	53	+ 2	W	4	0	5	0.f	•	58	46	0.08
	Stornoway	29.96	60	W	6	r	29.96	-.12	58	58	- 1	WNW	6	0	6	r	0.0	60	54	0.22
	Wick	29.93	59	NW	8	0	29.90	-.07	61	58	+ 1	NW	4	c	3	0	•	64	55	0.15
	Nairn	30.01	60	W	4	c	29.99	-.10	62	58	+ 2	W	2	c	1	c	•	63	56	—
	Aberdeen	30.01	62	WSW	2	ogp	29.97	-.13	66	59	+ 1	W	3	bc	2	og.op	0.2	66	59	0.03
	Leith	30.13	62	WSW	3	bc	30.04	-.17	66	61	+ 9	WSW	3	bc	•	bc	•	66	55	—
	Shields	30.16	61	SW	2	c	30.05	-.17	62	60	+ 6	WSW	4	c	2	p.c	•	66	55	0.04
	Spurn Head ...	30.24	65	W	4	c	30.12	-.16	62	60	+ 1	W	5	c	4	c.p	•	68	58	0.01
	Loughborough ...	30.31	68	WNW	2	c	30.23	-.12	59	56	- 1	W	5	cqp	•	bc.c.bq	•	74	53	-
	Malin Head ...	30.23	58	W	6	o	30.18	-.13	57	57	0	W	5	f	5	c.o	•	60	57	0.01
	Belmullet	30.38	60	WSW	4	o	30.32	-.11	59	58	0	WNW	2	om	•	c.o	•	61	55	0.03
	Donaghadee ...	30.28	67	WNW	4	b	30.21	-.11	64	62	+ 8	W	4	b	3	b	•	69	55	—
	Liverpool (Bidston)	30.33	62	W	3	b	30.23	-.15	60	58	0	WSW	5	o	4	b	•	63	56	0.04
	Holyhead	30.34	59	SW	3	bc	30.27	-.12	60	59	0	WSW	3	om	2	c.bc	•	65	55	-
	Parsonstown ...	30.39	63	W	1	c	30.33	-.11	61	60	+ 3	NW	1	o	•	c	9.6	67	52	-
	Valencia	30.45	60	NW	3	bc	30.40	-.07	60	60	0	NW	1	om	2	c.bc	6.2	63	49	0.01
	Roche's Point ...	30.39	65	NNW	2	b	30.35	-.04	61	59	+ 1	NW	3	o	2	b	•	67	53	—
	Pembroke (St. Ann's Hd.)	30.37	59	NNW	3	b	30.33	-.10	58	56	- 3	NW	3	b	2	b	9.0	61	55	-
	Scilly	30.40	63	NNW	3	bc	30.34	-.06	62	58	0	N	2	bc	0	bc	13.0	67	58	—
	Jersey (St. Anhin's) ...	30.35	70	NNW	2	bcm	30.31	-.06	69	64	+ 2	N	2	bm	2	bm	•	74	59	—
	Portland Bill ...	30.36	63	W	2	c	30.32	-.07	61	58	- 2	NNW	2	b	2	c	•	68	53	—
	Dungeness	30.30	64	SW	3	c	30.24	-.11	65	60	+ 2	NNW	2	c	1	c	•	73	53	—
	London (Brixton) ...	30.29	73	NW	1	bc	30.27	-.11	63	56	+ 2	W	1	b	•	bc	9.8	77	52	-
	Oxford	30.31	65	N	1	b	30.27	-.11	64	58	+ 3	W	2	b	•	b	•	75	52	-
	Yarmouth	30.25	68	NNE	2	b	30.15	-.14	64	59	+ 2	W	4	bc	2	b	•	70	53	-
GERMANY.	Cuxhaven	30.13	60	W	5	o	30.00	-.18	60	58	- 1	W	5	pa	•	o	•	64	59	0.04
	Berlin	30.12	60	W	2	r	30.07	-.12	60	57	+ 1	WSW	2	o	•	r	•	68	57	0.04
	Wiesbaden	•	•	•	•	•	30.21	-.11	68	57	+ 3	N	3	bc	•	•	•	70	50	-
	Munich	30.28	61	W	2	b	30.29	-.03	58	54	- 2	W	2	c	•	b	•	72	52	-
FRANCE & NETHERLANDS.	The Helder ...	30.22	61	WNW	2	o	30.10	-.14	64	60	- 1	WNW	3	c	3	o	•	66	61	-
	Brussels	•	•	•	•	•	30.23	-.11	64	59	+ 3	SW	2	b	•	o	•	73	52	-
	C. Gris Nez ...	30.32	68	SW	1	bc	30.25	-.07	64	61	+ 4	SW	1	b	1	bc	•	70	57	-
	Paris	30.28	72	NNE	2	b	30.28	-.08	61	57	+ 4	N	1	bc	•	b	•	75	53	-
	Brest	30.31	72	NE	3	b	30.32	+.01	58	54	+ 1	NE	1	b	0	b	•	77	52	—
	Lorient	30.27	75	NE	4	bc	30.29	-.02	59	57	- 1	NE	4	bc	2	bc	•	82	55	-
	Rochefort	30.17	81	NE	3	b	30.18	-.01	64	59	- 4	NE	4	b	•	bc.b	•	90	59	-
	Belfort	30.15	?	ENE	5	c	30.23	+.01	57	53	- 3	ENE	2	m	•	c	•	75	51	-
	Lyons	30.16	73	N	1	b	30.21	+.02	61	54	- 4	NNW	1	b	•	b	•	79	56	-
	Nice	30.01	74	SE	2	c	30.02	-.04	75	66	+ 1	SW	1	b	1	c	•	84	66	-
	Perpignan	30.05	87	NW	1	c	30.10	.00	75	68	+ 1	E	0	b	•	c	•	93	64	-
	Biarritz	30.10	75	W	4	b	30.08	-.05	70	66	+ 1	SW	3	c	2	b	•	79	66	-
SPAN. PEN.	Corunna																•			
	Lisbon	30.05	80	NNW	4	b	30.03	-.04	78	65	- 5	SSW	2	c	•	b	•	97	72	-
	Azores (P. Delgada)	30.24	70	NNE	4	c	30.19	-.02	70	65	- 1	NE	4	o	3	c	•	75	68	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 9.0 *hrs.*

WEATHER CHARTS

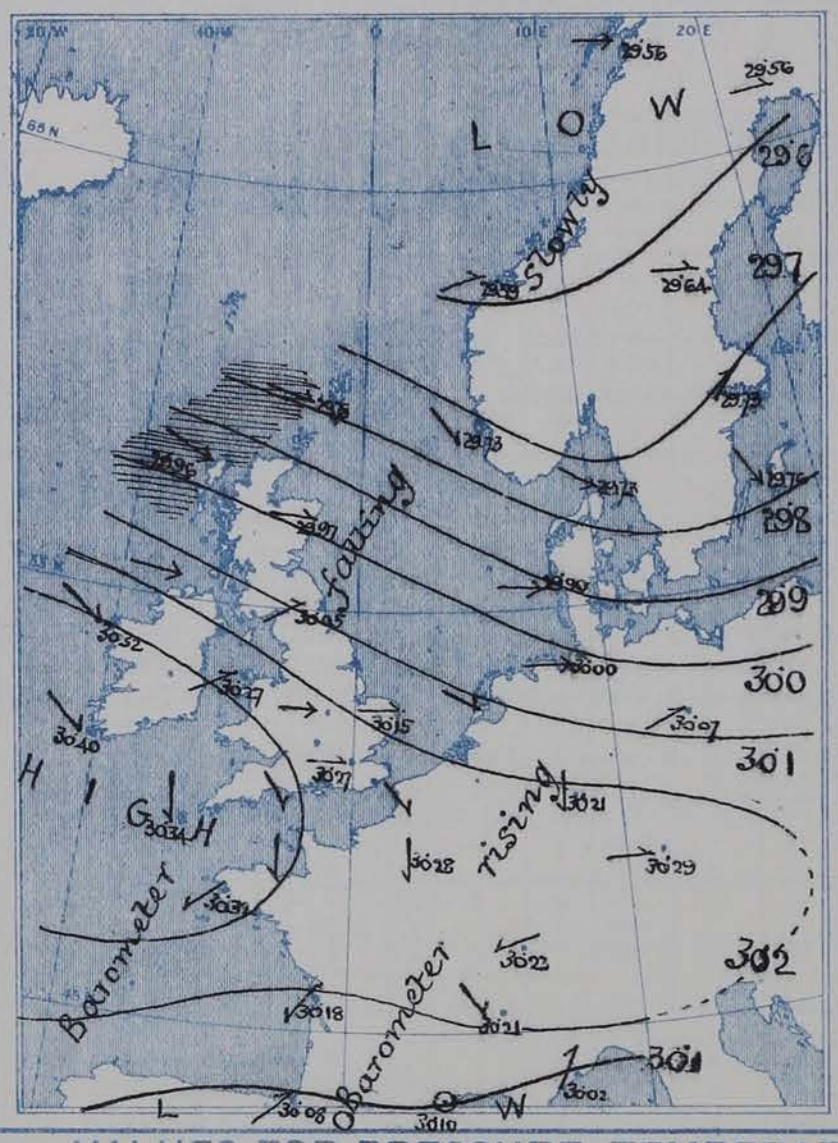
FOR Saturday, 29th July, 1899.

BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

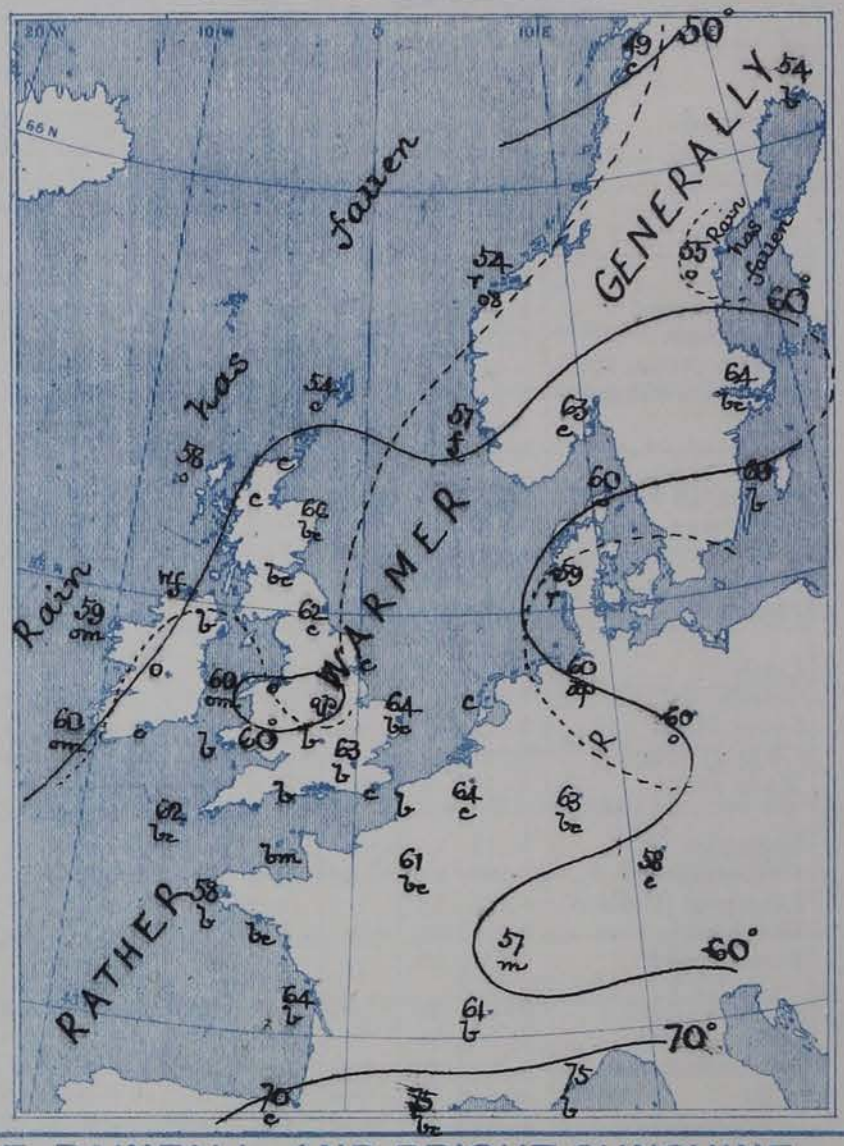
Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm⊙
Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ : }

SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29·896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29·927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	—	—	—	—	—
Belmullet	29·889	57·5	54·9	62·2	53·8	—	—	—	—	3·59	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	2·82	—	—
Holyhead	29·909	58·1	56·8	63·7	54·2	83	1894	43	1888	2·37	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·99	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·98	136·5	27
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	4·23	153·8	31
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	3·18	—	—
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	2·53	199·7	40
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·47	—	—
Prawle Point	29·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·39	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·54	230·0	48
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·39	—	—
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·05	—	—
LONDON	29·953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·48	162·0†	33†
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·68	185·5	38
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·62	189·6	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·40 in: at Valencia (Ireland); 30·2 in: and upwards in an anticyclone extending from the westward over all the more western and southern parts of our Islands, the northern and central parts of France and South Germany.

Lowest, 29·6 in: and less, in a large shallow area over the northern parts of Scandinavia.

Gradient moderate over the North Sea and the northern and eastern parts of our Islands, but slight elsewhere. Barometer falling at all but the French stations.

TEMPERATURE

Highest, (1) 75° at Nice and Perpignan, 70° at Biarritz and 69° at Jersey; (2) 66° at Aberdeen and Leith.

Lowest, (1) 49° at Bodö, 54° at Haparanda, Christiansund and Sumburgh Head and 55° at Hernösand; (2) 57° at Belfort and 58° at Munich.

During yesterday the thermometer rose to between 70° and 75° at several of our central and southern stations and to 77° in London. On many parts of our western and northern coasts it did not reach 65°.

WIND

W^{ly} or NW^{ly} over our Islands and also on the eastern shores of the North Sea; light to fresh in force generally, but strong in the Hebrides and also in Denmark; SW^{ly} in the south of Sweden.

Light to moderate from between N. and E. over the greater part of France, but SW^{ly} in the extreme south of that country.

WEATHER

Dull in Ireland and the northwestern and extreme northern parts of Great Britain, as well as in Norway, Denmark, and North Germany, with rain at Christiansund, Paris, and Cuxhaven.

Fine in all other parts of our area.

A little rain fell yesterday at several of our western and southern stations, and larger quantities on the eastern shores of the North Sea.

SEA

Rough off the north of Scotland and rather rough at Malin Head, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone appears to be moving slowly in a southwesterly direction, and the low-pressure systems in the north are inclined to spread further to the southward. Showers are probable in several parts of the United Kingdom, with thunder at some of the English stations.

FORECASTS

For the 24 hours ending at NOON on 30TH JULY, 1899.

DISTRICTS.	FORECASTS.
▼ 0 SCOTLAND NORTH	NW^{ly} winds, strong; cloudy, some rain.
▼ 1 SCOTLAND EAST 2 ENGLAND N.E.	W^{ly} winds, moderate or fresh; fine at first, showery later.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	W^{ly} winds, moderate; fair at first, cloudy later, with some showers and perhaps thunder.
▼ 6 SCOTLAND WEST 7 ENGLAND N.W.	W^{ly} and NW^{ly} winds, strong in places; cloudy, some showers.
8 ENGLAND S.W.	NW^{ly} winds, light; cloudy, local showers.
▼ 9 IRELAND NORTH	Same as Nos 6 and 7.
10 IRELAND SOUTH	Same as No. 8.
WARNINGS	The North Cone is still flying in districts 0. 6. and parts of 1 and 9.

Note.—The **South Cone,** *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29.84	57	55	NW	6	r	2
Sumburgh Head	29.81	56	54	WNW	5	o	5
Stornoway... ...	30.01	58	58	WNW	6	r	6
Aberdeen	30.07	63	54	N	3	og	2
Shields	30.04	63	58	WSW	4	c	2
Ardrossan ...							
Malin Head ...	30.28	60	58	W	5	c	4
Belmullet	30.42	61	55	WSW	3	c	*
Holyhead	30.38	65	60	WSW	2	c	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	30.46	62	56	WNW	2	c	3
Scilly	30.40	65	59	N	3	bc	1
Jersey	30.37	73	64	ENE	2	b	2
Portland Bill ...	30.37	67	62	SW	3	c	3
Dungeness ...	30.31	67	63	SW	3	bc	2
North Foreland							
London (Westminster)	30.32	72	56	NNW	2	bc	*
Yarmouth ...	30.28	69	59	NNE	3	b	3
Rochefort ...	30.20	87	72	NE	3	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fair over England and the central and southern parts of the Continent, but rain falling at Brest, cloudy or dull over Ireland, Scotland, and the greater part of northern Europe, with rain in the Shetlands and west of Norway and also in Lapland. Showers falling during day at several of our own western and northern stations, and larger quantities of rain in Norway and Denmark.

Temperature fallen over Central Europe, changed irregularly elsewhere. Morning readings highest 83° at San Fernando, 81° at Brindisi and 79° at Lerma; above 70° in most parts of southern Europe. Lowest 49° at Bodo and 52° at Haparanda, Christiansund and Sumburgh Head. Daily maxima below 65° at several of our own western and extreme northern stations, but thermometer rising to 70° and upwards over central and southern England and to 77° in London. Exceeding 80° in the west and south of France, and reaching 93° at Perpignan and 97° at Lisbon.

Wind W³ or NW³ in all the more northern parts of our Islands and also over the greater part of Scandinavia, Denmark and Germany; strong in force in the north of Scotland and also in Denmark and the south of Sweden; SW³ over northern Russia and the west of Norway. N³ on our own southern coasts; E³ or NE³ over the Spanish Peninsula, South Germany, and the greater part of France, but SW³ at Biarritz and Perpignan. N³ (NE to NW) over Italy. Subsequently backing to the SW^cm at several of the English stations, no important change occurring elsewhere.

Barometer highest 30·4 in: and upwards over Ireland, Wales and the southwest of England; 30·2 in: and upwards in an anticyclone extending from the Atlantic over the whole of Ireland, England, the Netherlands, Germany and the northern parts of France. Lowest 29·3 in: and less, in a depression over Lapland. Small secondary disturbances skirting our extreme northern coasts during day, and barometer falling in most part of Western Europe.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy) o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Sunday 30th July, **1899.**

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M.S.L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb	Temperature. Wet Bulb	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
SCANDINAVIA	Haparanda	29.64	54	SW	2	c	29.62	+ .06	58	53	+ 4	S	6	c	*	c	*	61	45	—
	Hernösand	29.68	54	SW	4	o	29.60	− .04	53	53	− 2	S	4	o	*	o	*	66	46	—
	Stockholm	29.75	61	SSW	2	c	29.76	+ .03	70	60	+ 6	SW	2	b	*	c	*	73	52	—
	Wisby	29.77	63	SSW	4	o	29.82	+ .06	65	61	+ 5	SW	2	o	*	o	*	68	54	—
	Karlstad	29.70	65	SW	2	bc	29.71	+ .05	64	59	+ 5	S	2	o	*	bc	*	*	*	—
	Bodö	29.58	51	E	0	b	29.22	− .34	52	51	+ 3	E	4	r	1	b	*	54	46	0.12
	Christiansund ...	29.57	56	WNW	5	r	29.66	+ .07	54	53	0	W	9	r	5	r	*	55	54	0.79
	Skudesnaes ...	29.87	57	WNW	6	rf	29.96	+ .23	56	55	− 1	NW	4	rf	3	o, rf	*	60	54	*
	Færder (X'iania Fjord)	29.68	66	SSW	4	o	29.73	+ .06	66	58	+ 3	W	4	bc	3	o	*	66	63	—
	The Scaw (Skagen)	29.76	61	W	3	b	29.81	+ .08	61	58	+ 1	WNW	6	b	2	b	*	68	57	—
	Fanö	29.97	59	WNW	6	c	30.03	+ .13	62	60	+ 3	WNW	6	c	*	c	*	64	59	0.04
BRITISH ISLANDS	Sumburgh Head ...	29.80	54	WSW	4	r	29.98	+ .20	55	54	+ 1	WNW	5	c	5	m, r	*	56	48	0.08
	Stornoway	30.02	59	WNW	5	o	30.15	+ .19	59	58	+ 1	WNW	6	o	6	o	2.1	64	52	0.05
	Wick	29.94	61	NW	6	o	30.12	+ .22	66	61	+ 5	NW	5	bc	3	o	*	70	53	—
	Nairn	30.00	66	W	2	b	30.18	+ .19	60	58	− 2	W	3	b	1	b	*	70	55	—
	Aberdeen	29.99	72	W	2	b	30.18	+ .21	68	57	+ 2	WNW	2	b	1	cg, b	12.0	75	54	—
	Leith	30.07	66	W	3	b	30.22	+ .18	66	58	0	WSW	3	b	*	b	*	72	55	—
	Shields	30.09	66	W	3	bc	30.22	+ .17	67	62	+ 5	W	2	b	2	c, bc	*	73	56	—
	Spurn Head ...	30.11	66	W	5	c	30.23	+ .11	64	61	+ 2	WNW	2	b	3	c	*	69	58	—
	Loughborough ...	30.21	68	WNW	4	c	30.26	+ .03	66	60	+ 7	WNW	3	bc	*	cg, bc, b	*	75	58	—
	Malin Head ...	30.18	58	W	5	o	30.30	+ .12	58	58	+ 1	W	3	f	2	o	*	59	57	—
	Belmullet	30.36	61	WSW	2	o	30.39	+ .07	59	58	0	W	1	o	*	o	*	62	57	0.04
	Donaghadee ...	30.22	67	WNW	3	c	30.32	+ .11	63	58	− 1	NW	1	b	2	c	*	71	55	—
	Liverpool (Bidston)	30.21	65	WSW	4	o	30.30	+ .07	60	56	0	WNW	3	bc	4	o	*	67	58	—
	Holyhead	30.26	64	SW	3	c	30.32	+ .05	62	59	+ 2	NNW	2	b	1	c	*	67	56	—
	Parsonstown ...	30.29	70	W	1	c	30.37	+ .04	63	60	+ 2	NW	1	o	*	c	8.2	73	60	—
	Valencia	30.36	62	NNW	4	o	30.39	− .01	66	62	+ 6	ENE	1	cr	2	o	0.8	66	57	—
	Roche's Point ...	30.32	69	NNW	2	b	30.37	+ .02	64	61	+ 3	N	2	b	2	b	*	71	57	—
	Pembroke (St. Ann's Hd.)	30.29	62	WNW	4	b	30.34	+ .01	63	61	+ 5	NE	3	b	2	b	14.5	65	57	—
	Scilly	30.31	64	NNW	2	bc	30.31	− .03	62	62	0	N	2	fr	0	bc	14.2	67	58	—
	Jersey (St. Aubin's) ...	30.27	70	NW	3	b	30.28	− .03	74	67	+ 5	ENE	2	bm	2	b	*	75	61	—
	Portland Bill ...	30.25	66	NW	2	b	30.30	− .02	65	62	+ 4	N	1	b	1	b	*	68	57	—
	Dungeness	30.16	67	SW	4	c	30.23	− .01	66	63	+ 1	NNW	2	c	2	c	*	72	57	—
	London (Brixton) ...	30.18	78	W	2	bc	30.25	− .02	66	60	+ 3	NNW	2	b	*	bc, b	11.0	82	61	—
	Oxford	30.22	69	NW	2	bc	30.27	.00	66	61	+ 2	NW	3	b	*	bc	*	80	59	—
	Yarmouth	30.12	71	WNW	3	bc	30.21	+ .06	64	60	0	NW	2	bc	2	c, bc	*	72	60	—
GERMANY.	Cuxhaven	30.00	61	NW	4	o	30.09	+ .09	62	60	+ 2	W	4	o	*	o	*	63	59	0.04
	Berlin	29.97	60	WSW	2	r	30.07	.00	61	58	+ 1	W	2	o	*	r	*	63	59	0.20
	Wiesbaden	*	*	*	*	*	30.20	− .01	66	62	+ 3	W	2	o	*	*	*	77	63	—
	Munich	30.22	65	SW	2	c	30.25	− .04	62	58	+ 4	W	3	o	*	c	*	72	59	0.04
FRANCE & NETHERLANDS.	The Helder ...																*			
	Brussels	*	*	*	*	*	30.23	.00	63	61	− 1	E	0	o	*	o	*	75	57	—
	C. Gris Nez ...	30.19	66	W	3	c	30.22	− .03	64	62	0	NNE	1	b	0	c	*	72	63	—
	Paris	30.20	76	N	2	bc	30.25	− .03	62	58	+ 1	E	0	bc	*	bc	*	79	55	—
	Brest	30.26	69	N	1	b	30.26	− .06	61	60	+ 3	NE	1	b	1	b	*	72	54	—
	Lorient	30.20	78	W	1	b	30.25	− .04	63	63	+ 4	E	2	b	1	b	*	84	57	—
	Rochefort	30.13	82	NE	4	b	30.16	− .02	68	68	+ 4	ENE	4	b	*	b	*	91	61	—
	Belfort	30.10	74	W	1	c	30.20	− .03	60	59	+ 3	E	0	m	*	c	*	69	54	—
	Lyons	30.12	75	N	1	b	30.18	− .03	66	58	+ 5	N	1	b	*	b	*	78	61	—
	Nice	30.01	75	SW	2	c	30.02	.00	74	62	− 1	E	2	c	2	c	*	86	66	—
	Perpignan	30.02	83	S	2	b	30.12	+ .02	73	67	− 2	SW	2	b	*	b	*	88	61	—
	Biarritz	30.05	74	NW	3	b	30.06	− .02	70	65	0	SSW	2	b	2	b	*	77	64	—
SPAN. PEN.	Corunna																*			
	Lisbon	29.99	81	W	2	b	30.02	− .01	75	67	− 3	NNE	2	c	*	b	*	88	73	—
	Azores (P. Delgada)	30.17	69	NNE	3	o	30.16	− .03	70	65	0	NE	3	o	2	o	*	75	66	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 1·2 hrs.

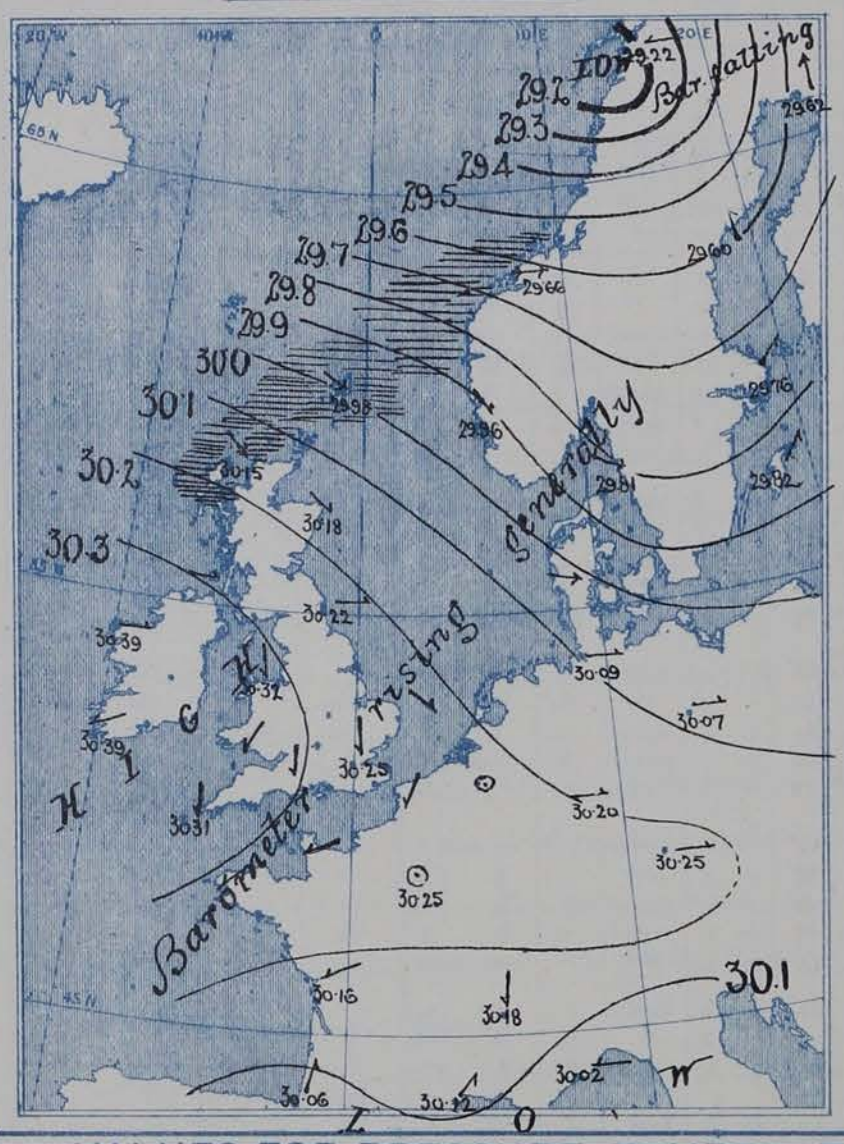
WEATHER CHARTS

FOR Sunday, 30th July, 1899.

BAROMETER, WIND AND SEA.

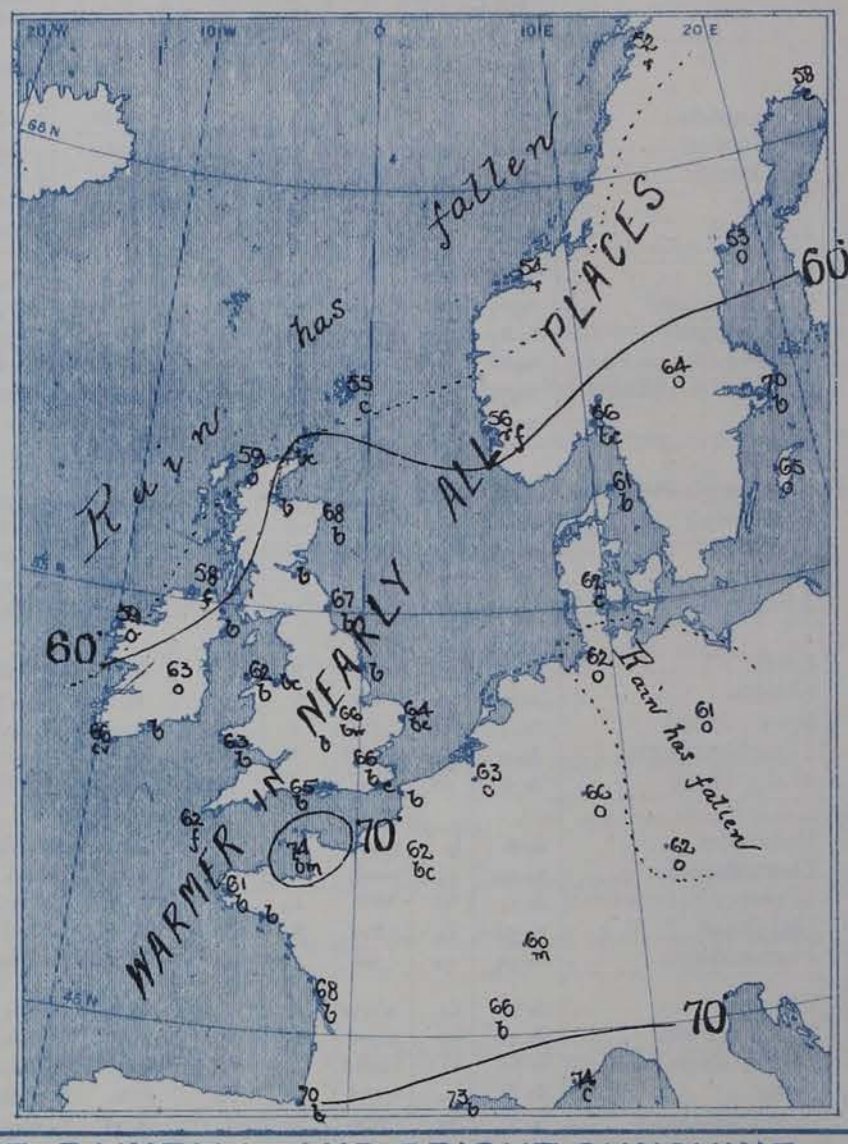
BAROMETER.—Isobars are drawn for each tenth of an inch.
WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 ⟶ : *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ⟶ : *Force 1 to 4* ⟶ :
SEA.—Rough : *High*



TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.
WEATHER.—Shown by Letters of the Beaufort Scale.
RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR, 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29·896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29·927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	—	—	—	—	—
Belmullet	29·889	57·5	54·9	62·2	53·8	—	—	—	—	3·59	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	2·82	—	—
Holyhead	29·909	58·1	55·8	63·7	54·2	83	1894	43	1888	2·37	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·99	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·98	136·5	27
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	4·23	153·8	31
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	3·18	—	—
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	2·53	199·7	40
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·47	—	—
Prawle Point	29·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·39	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·54	230·0	48
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·39	—	—
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·05	—	—
LONDON	29·953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·48	162·0†	33†
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·68	185·5	38
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·62	189·6	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·3 in: and upwards over Ireland, Wales, and the southwest of England; 30·1 in: and upwards in an anticyclone covering the greater part of western and central Europe.

Lowest, 29·2 in: and less, in a rather deep depression with its centre near Bodö.

Gradients slight generally, but rather steep over the northern parts of Scandinavia. Barometer rising at all stations excepting those in the north of Scandinavia.

TEMPERATURE

Highest, (1) 75° at Linton and 74° at Jersey and Nice; (2) 70° at Stockholm, and 66° at Tarsbv; (3) 68° at Aberdeen and 67° at Shields.

Lowest, 52° at Bodö; 53° at Hernösand; 54° at Christiansund, 55° at Scumburgh Lt. and 56° at Aberdeenshire.

During yesterday the thermometer rose to between 70° and 75° in many parts of the United Kingdom, to 80° at Oxford and to 82° in London.

WIND

W to NW over the greater part of our Islands, the Netherlands, Norway, Denmark, and Germany; strong in the Hebrides and also on the eastern shores of the North Sea, with a gale at Christiansund; S or SW in Sweden.

Light from the N on the south coasts of England, and from the NE in the south of Ireland and the west of France; calm over Central France; SW in the extreme south of that country.

WEATHER

Fine over Western Europe generally, but dull on an over extreme northwest coasts and also over Belgium and Germany.

Rain is falling on the Norwegian coasts.

A little rain fell yesterday in the extreme north and northwest of our Islands and also over Germany and a larger quantity in the west of Norway — as much as 08 in: at Christiansund.

SEA

Rough off the north of Scotland and rather rough at Christiansund, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 31st JULY, 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED.	6 SCOTLAND WEST	NONE ISSUED.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	29.84	60	57	WNW	4	o	3
Sumburgh Head	29.78	55	55	W	4	m	5
Stornoway... ...	30.00	63	61	WNW	5	o	5
Aberdeen	29.98	72	62	W	4	bcq	2
Shields	30.09	71	64	W	4	c	2
Ardrossan ...							
Malin Head ...	30.19	59	59	W	5	m	5
Belmullet	30.08	61	60	W	3	o	*
Holyhead	30.28	67	63	WSW	3	bc	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia	30.38	63	61	NW	3	o	4
Scilly	30.31	65	61	N	2	bc	0
Jersey	30.30	72	62	NW	3	bm	3
Portland Bill ...	30.27	67	63	W	3	b	3
Dungeness ...	30.19	71	66	SW	4	bc	3
North Foreland							
London (Westminster)	30.20	78	67	W	3	bc	*
Yarmouth ...	30.14	69	64	WNW	2	c	2
Rochefort ...	30.16	88	70	ENE	4	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fair or fine over Western and Southern Europe generally, but dull in the northwestern and extreme northern parts of Great Britain, with fog at Malin Hd. Cloudy over the northern and central parts of the Continent, with rain at Christiansund, Paris, Cuxhaven, and Breslau. Slight rain falling later in the extreme north and northwest of our Islands and in Germany, and larger quantities in the west of Norway.

Temperature risen a little in most of the western countries, but fallen elsewhere. Morning readings highest 81° at Brindisi, 80° at Athens, and 79° at Patras and Sfax; above 70° in most parts of southern Europe. Lowest 49° at Bodö, 54° at Haparanda, Christiansund and Sumburgh Hd, and 55° at Archangel, Uleaborg, Kuopio and Hammerfest. Rising during day to between 70° and 75° in many parts of Great Britain to 80° at Oxford and to 82° in London. Exceeding 80° also in the west and south of France, and reaching 88° at Perpignan as well as at Lisbon.

Wind W⅗ or NW⅗ over our Islands, and also over Scandinavia, Denmark, and Germany; strong in force in the Hebrides and on the eastern shores of the North Sea; light from the Sth (SE to SW) over the Gulf of Finland. N⅗ or NE⅗ over the greater part of France, variable over the Spanish Peninsula and northern Italy; N⅗ or NW⅗ over southern Italy. No important change occurring over Western Europe during day.

Barometer highest 30.40 ins. at Valencia (Ireland), 30.1 ins. and upwards in an anticyclone extending from the W^ward over the whole of Ireland, England, France, the Netherlands, and all but the northern parts of Germany. Lowest 29.6 ins. and less, in a large shallow depression over the southern parts of Scandinavia, 29.9 ins. and less, in another shallow area over Asia Minor. Anticyclone spreading slowly northwards during day, but new depression advancing towards the Norwegian coast at night.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on *Monday, 31st July,* **1899.**

Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M.S.L.	Change since Yesterday.	Temperature. Dry Bulb	Temperature. Wet Bulb	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°									Ins.
SCANDINAVIA	Haparanda	29.41	53	Z	0	bc	29.59	-.03	48	48	-10	W	2	r	*	bc	*	61	48	0.43
	Hernösand	29.78	58	WNW	8	b	29.98	+.38	56	49	+3	NW	6	b	*	b	*	70	46	-
	Stockholm	29.76	67	Z	0	b	30.09	+.33	59	50	-11	NNW	6	b	*	b	*	77	57	-
	Wisby	29.84	64	SSW	4	b	30.07	+.25	61	54	-4	NNE	8	b	*	b	*	72	?	-
	Karlstad	29.82	69	NNW	2	b	30.16	+.45	60	251	-4	NNE	2	b	*	b	*	*	*	-
	Bodö	29.52	49	SW	4	c	29.90	+.68	50	46	-2	W	5	c	3	c	*	53	46	0.71
	Christiansund ...	30.01	53	W	8	r	30.09	+.43	56	52	+2	WSW	4	o	5	r	*	56	50	0.08
	Skudesnaes ...	30.19	57	NNW	4	bc	30.34	+.38	57	55	+1	NNE	2	o	2	bc	*	59	52	*
	Færder (X'iania Fjord)	29.91	68	NNW	4	b	30.21	+.48	63	50	-3	N	2	b	3	b	*	73	59	-
	The Scaw (Skagen)	29.95	62	NW	5	b	30.23	+.42	63	57	+2	NNW	3	b	0	b	*	68	59	-
	Fanö	30.22	60	NW	8	c	30.31	+.28	60	56	-2	NW	7	c	*	c	*	64	57	-
BRITISH ISLANDS	Sumburgh Head ...	30.14	55	W	4	m	30.26	+.28	57	56	+2	SW	2	c	4	m	*	58	48	0.01
	Stornoway	30.28	66	W	4	c	30.36	+.21	62	59	+3	WSW	4	c	4	o.c	7.7	66	52	-
	Wick	30.28	64	NW	5	c	30.38	+.26	64	60	-2	SW	2	bc	1	c	*	71	55	-
	Nairn	30.30	69	W	1	c	30.40	+.22	65	61	+5	WSW	1	bc	1	c	*	75	55	-
	Aberdeen	30.29	71	NNW	2	bc	30.43	+.25	65	60	-3	E	2	bc	1	bc	9.1	75	54	-
	Leith	30.26	76	W	1	b	30.41	+.19	68	63	+2	WSW	1	b	*	b	*	79	57	-
	Shields	30.32	66	SE	2	b	30.42	+.20	61	60	-6	SW	1	m	2	b	*	73	56	-
	Spurn Head ...	30.33	62	ENE	2	bc	30.47	+.24	64	62	0	S	1	bw	1	bc.f	*	68	57	0.01
	Loughborough ...	30.30	76	NNW	2	bc	30.48	+.22	58	57	+8	SE	1	cmw	*	b.bc.bf	*	83	51	-
	Malin Head ...	30.39	58	NNW	4	f	30.42	+.12	58	58	0	SE	1	f	1	f	*	59	55	-
	Belmullet	30.43	62	NNW	1	b	30.43	+.04	64	62	+5	ENE	1	b	*	of.b	*	65	52	-
	Donaghadee ...	30.39	64	NNE	3	b	30.45	+.13	56	56	-7	NNE	3	f	3	b.f	*	65	54	-
	Liverpool (Bidston).	30.37	64	W	2	b	30.45	+.15	61	59	+1	SE	1	o	?	b	*	65	59	-
	Holyhead	30.38	62	Z	0	bc	30.44	+.12	58	57	-4	N	1	f	1	bc	*	64	55	-
	Parsonstown ...	30.37	73	NW	1	c	30.45	+.08	59	57	-4	N	1	o	*	c	5.0	76	52	-
	Valencia	30.37	74	ENE	3	bc	30.42	+.03	67	64	+1	Z	0	b	1	bc	12.0	75	54	-
	Roche's Point ...	30.38	68	SW	1	b	30.43	+.06	67	64	+3	ENE	1	b	1	b	*	69	57	-
	Pembroke (St. Ann's Hd.)	30.35	67	NE	4	b	30.40	+.06	66	63	+3	E	2	bm	1	b	14.3	70	59	-
	Scilly	30.33	66	NNE	3	bc	30.34	+.03	69	63	+7	E	3	b	2	bc	12.3	69	62	-
	Jersey (St. Aubin's) ...	30.29	75	NNW	3	b	30.32	+.04	65	64	-9	ENE	3	of	3	b	*	77	62	-
	Portland Bill ...	30.30	68	N	2	b	30.41	+.11	65	63	0	E	3	b	2	b	*	70	58	-
	Dungeness	30.29	68	Z	0	b	30.42	+.19	68	65	+2	ENE	3	b	2	bc.b	*	79	61	-
	London (Brixton) ...	30.28	80	NNE	2	b	30.46	+.21	69	60	-3	NE	3	bc	*	bc.b.om	13.5	84	58	-
	Oxford	30.32	73	N	2	b	30.46	+.19	69	66	+5	NE	1	b	*	b	*	83	55	-
	Yarmouth	30.31	66	N	2	b	30.46	+.25	64	60	0	ENE	2	bc	2	b	*	69	55	-
GERMANY	Cuxhaven	30.20	63	NW	4	c	30.34	+.25	61	59	-1	NNW	4	o	*	c	*	66	59	-
	Berlin	30.12	66	W	1	o	30.24	+.17	60	55	-1	WSW	2	o	*	o	*	70	59	-
	Wiesbaden	*	*	*	*	*	30.36	+.16	65	62	-1	NE	3	b	*	*	*	73	55	-
	Munich	30.34	62	SW	1	0	30.40	+.15	62	59	0	Z	0	o	*	o	*	70	57	-
FRANCE & NETHERLANDS.	The Helder ...	30.28	64	NNW	1	bc	30.43		65	60		N	1	bc	1	bc	*	70	61	-
	Brussels	*	*	*	*	*	30.43	+.20	60	57	-3	ENE	2	o	*	b	*	73	57	-
	C. Gris Nez ...	30.29	67	E	1	b	30.39	+.17	64	61	0	ESE	2	c	1	b	*	73	59	-
	Paris	30.25	75	NNE	3	b	30.35	+.10	65	62	+3	NE	2	b	*	b	*	82	61	-
	Brest	30.21	73	NE	2	bc	?	+?	64	62	+3	NE	1	b	0	bc	*	84	55	-
	Lorient	30.23	75	NW	2	bc	30.28	+.03	64	61	+1	E	4	b	2	bc	*	91	61	-
	Rochefort	30.12	86	ENE	3	b	30.20	+.04	70	64	+2	ENE	3	b	*	b	*	97	64	-
	Belfort	30.18	70	ENE	4	m	30.26	+.06	65	60	+5	E	5	m	*	m	*	78	54	-
	Lyons	30.16	59	N	3	bc	30.25	+.07	67	61	+1	NNW	1	b	*	bc	*	83	62	-
	Nice	30.12	73	SW	3	c	30.04	+.02	73	64	-1	E	1	b	1	c	*	86	66	-
	Perpignan	30.09	82	NE	1	b	30.17	+.05	72	64	-1	SW	1	b	*	b	*	87	61	-
	Biarritz	30.06	77	Z	0	b	30.14	+.08	74	70	+4	Z	0	b	1	b	*	81	68	-
SPAN. PEN.	Corunna																*			
	Lisbon	30.05	80	SSE	3	b	30.10	+.08	80	69	+5	S	2	b.	*	b	*	93	72	-
	Azores (P. Delgada)																*			

For Explanation of Columns, see bottom of last page. *† Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is recorded on the Tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 14.0 hrs.

WEATHER CHARTS

FOR Monday 31st July, 1899.

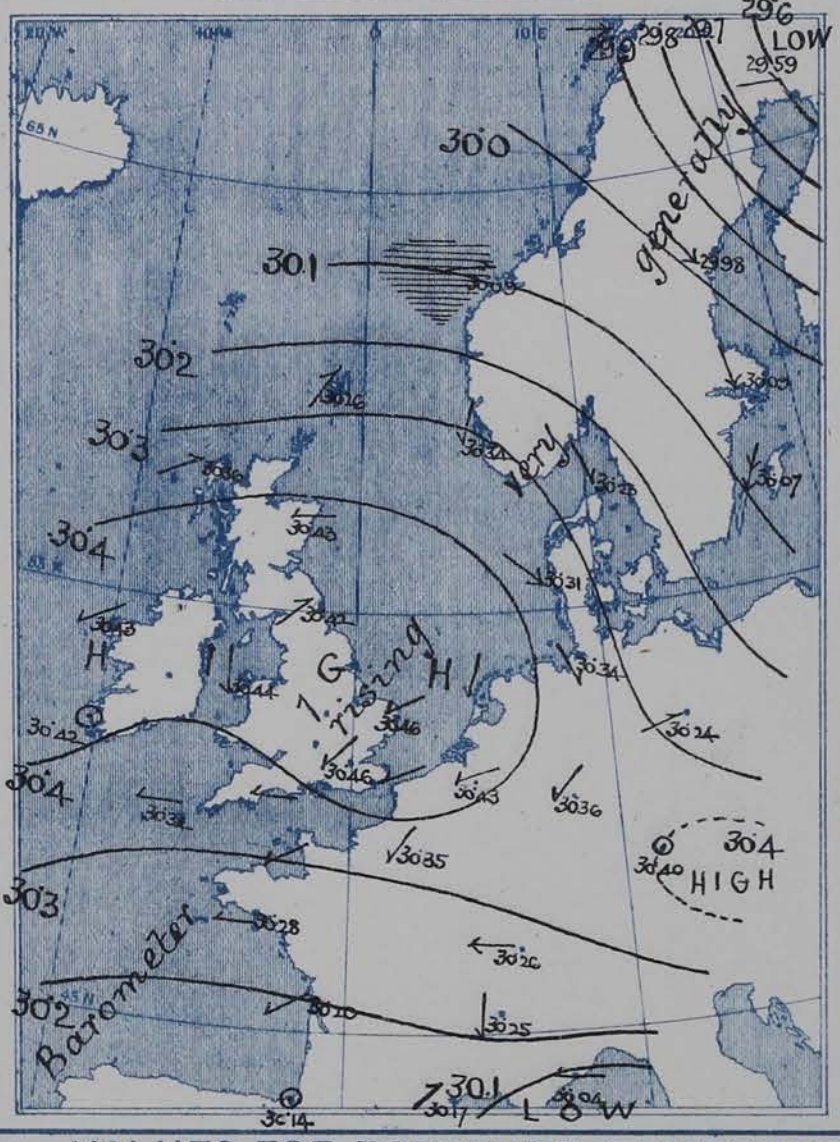
BAROMETER, WIND AND SEA.

BAROMETER.—Isobars are drawn for each tenth of an inch.

WIND.—Arrows show Directions and Force, flying with the wind.

Force above 10 : *Force 5 to 7* : *Force 8 to 10* : *Force 1 to 4* : } Calm ⊙

SEA.—Rough : *High*

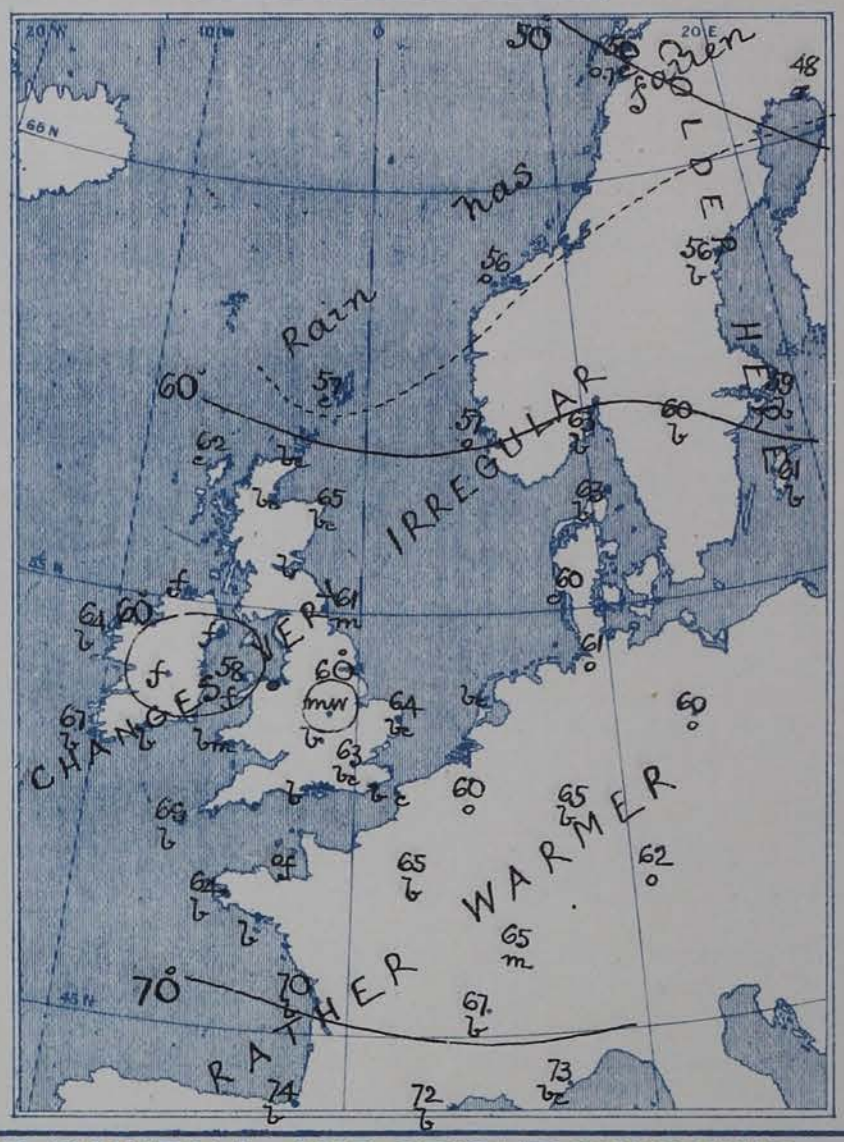


TEMPERATURE AND WEATHER.

TEMPERATURE.—Isotherms are drawn for each 10°.

WEATHER.—Shown by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum.	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE, Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29·896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29·927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	—	—	—	—	—
Belmullet	29·889	57·5	54·9	62·2	53·8	—	—	—	—	3·59	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	2·82	—	—
Holyhead	29·909	58·1	56·8	63·7	54·2	83	1894	43	1888	2·37	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·99	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·98	136·5	27
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	4·23	153·8	31
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	3·18	—	—
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	2·53	199·7	40
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·47	—	—
Prawle Point	29·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·39	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·54	230·0	48
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·39	—	—
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·05	—	—
LONDON	29·953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·48	162·0†	33†
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·68	185·5	38
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·62	189·6	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·4 in: and upwards over nearly the whole of our Islands and the Netherlands; 30·1 in: and upwards in an anticyclone covering western and central Europe generally.

Lowest, 29·6 in: and less, in a depression passing eastwards across Lapland.

Gradients slight generally, but moderate to rather steep over the Gulf of Bothnia and the north of Scandinavia. Barometer rising generally.

TEMPERATURE

Highest, 74° at Biarritz and Nice, 72° at Perpignan, 70° at Rochefort, 69° at Oxford, and 68° at Leith and Dungeness.

Lowest, 48° at Haparanda, 50° at Bodö, and 56° at Hernösand, Christiansund and Donaghadee.

During yesterday the thermometer rose to 75° and upwards in many parts of Ireland & Scotland, to 80° and upwards over the inland parts of England and to 84° in London.

WIND

Light from the E^{ly} or NE^{ly} over the eastern and southern parts of the United Kingdom, and also over France, the Netherlands and Western Germany. Light from the SW^{ly} over the northern parts of Great Britain; moderate from the W^{ly} in the west of Norway; N^{ly} or NW^{ly} over Sweden, Denmark, and the south of Norway, with a gale at Visby.

WEATHER

Fine over Western Europe generally, but dull in the west of Norway. Thick fog is reported on many parts of our northern coast. Rain fell yesterday over the north of Scandinavia, but in all other parts of our area the weather remained dry. At Lerwick Hd. and Malin Head there was a slight deposition in the gauge, due probably to wet mists and fogs.

SEA

Smooth generally, but moderate off the north of Scotland, and rather rough at Christiansund.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone shows at present no signs of breaking up, and fine dry weather is therefore likely to continue for a time in nearly all districts.

FORECASTS

For the 24 hours ending at NOON on 1ST AUGUST, 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW^{ly} and W^{ly} winds, moderate; fair at first, cloudy later, with some rain.
1 SCOTLAND EAST	Light breezes, chiefly SW^{ly}; fine, warm.
2 ENGLAND N.E.	
3 ENGLAND EAST	E^{ly} and NE^{ly} winds, light; fine, warm.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Variable or NE^{ly} airs; fair generally, but foggy or misty in places.
7 ENGLAND N.W.	
8 ENGLAND S.W.	Same as Nos 3 to 5
9 IRELAND NORTH	Same as Nos 6 and 7.
10 IRELAND SOUTH	Same as Nos 3 to 5.
WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Skudesnaes ...	30·08	59	55	NNW	6	o	3
Sumburgh Head							
Stornoway... ...	30·23	66	64	NNW	4	o	4
Aberdeen							
Shields							
Ardrossan ...							
Malin Head ...	30·36	59	59	W	4	f	3
Belmullet	30·44	63	60	W	1	of	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	WIND. Force.	WEA.	SEA.
Valencia							
Scilly							
Jersey	30·30	75	67	NNW	3	b	3
Portland Bill ...							
Dungeness ...	30·27	72	67	S	2	bc	1
North Foreland							
London (Westminster)							*
Yarmouth ...							
Rochefort ...							*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 23rd TO THE 29th JULY 1899.

Shortly after the commencement of this week the complex area of low pressure which had previously extended over England from the 5th moved away to Germany and gradually dispersed, while an anticyclone spread from the Atlantic over France and the southern parts of the United Kingdom. For a time the weather over England was in a very changeable condition, with thunderstorms and heavy rain at several of the eastern and southern stations on the 23rd. Later on, however, it improved materially, and for the greater part of the week was fair and dry, with temperatures above the average for the time of year.

In Ireland and Scotland and also over the northern parts of the Continent, the weather was affected by some large depressions which moved eastwards from the Atlantic over Scandinavia, the most important of these skirting our extreme northern coasts on Tuesday night, and occasioning W. to NW. gales and rain, at first in the north of Scotland, and afterwards in many parts of northern Europe. At the close of the week the anticyclone over our southern and southwestern districts was spreading northwards and northeastwards, and the depressions in the north were beginning to move in a track lying still further to the northward. Fair, dry weather was therefore spreading to all but the extreme northern parts of the United Kingdom, and temperature was inclined to rise both in Ireland and Scotland.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway; at 7 a.m. in France; and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway, and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily and Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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REPORTS FOR JULY 1899.

2. CORRECTIONS.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Temp. Min.	Rainfall.
		Ins.					Ins.	Ins.	°	°	°									Ins.
1	Liverpool	-	-	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Pembroke	-	-	-	-	-	29.65	+.08	-	-	-	-	-	-	-	-	-	-	54	-
3	Malin Hd. 2pm	-	-	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	-	-
4	Wick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	-
"	Portland Bill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	-
5	Portland Bill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	?53	-
6	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10
7	Valencia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	-	-	-
"	Pembroke	30.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59	-	-
9	Donaghadee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64	-	-
10	Valencia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59	-
11	Aberdeen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-
"	Parsonstown	-	-	-	-	-	29.80	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
"	Malin Head 2pm	-	-	-	-	-	-	-	63	-	-	-	-	-	-	-	-	-	-	-
15	Malin Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63	-	-
"	Valencia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	-
"	Lorient	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.08
17	Berlin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.79
18	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03
19	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.49
21	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.84
"	Pembroke	-	-	-	-	-	30.03	-	-	-	-	-	-	-	-	-	-	-	-	-
"	Belmullet 2pm	-	-	-	-	-	-	-	67	-	-	-	-	-	-	-	-	-	-	-
22	Jersey	-	-	-	-	-	-	-	-	66	-	-	-	-	-	-	-	-	-	-
23	Yarmouth	-	-	-	-	-	29.78	-.23	-	-	-	-	-	-	-	-	-	-	-	-
25	Portland Bill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	-
"	Wiesbaden	-	-	-	-	-	30.01	+.16	-	-	-	-	-	-	-	-	-	-	-	-
"	Belfort	-	-	-	-	-	30.11	+.18	-	-	-	-	-	-	-	-	-	-	-	-
26	Stornoway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	-

ADDITIONS AND CORRECTIONS TO THE

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	YESTERDAY EVENING. Barom. At 32° and M.S.L.	Temp. Dry Bulb	Wind. Direc.	Force (0 to 12.)	Weather	THIS MORNING. Barometer. At 32° Fahr. and M.S.L.	Change since Yesterday.	Temperature. Dry Bulb	Wet Bulb	Change since Yesterday.	Wind. Direc.	Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max	Min.	Rainfall.
		Ins.					Ins.	Ins.	°	°	°									Ins.
1	The Helder	29.95	53	W	1	b	29.65	-.19	56	?	-3	S	3	r	1	b	-	61	48	0.04
4	Corunna	?	64	N	4	b	30.32	?	62	55	?	NE	4	bc	3	b	-	64	54	-
6	Corunna	30.23	70	NNE	4	b	30.22	?	66	?	?	NE	2	b	2	b	-	72	59	-
8	Lyons	30.17	?	NNE	?	?	30.20	-.03	61	57	-1	NW	1	b	-	l	-	75	57	-
9	The Helder	30.14	66	Z	0	b	30.10	-.14	64	?	+1	Z	0	b	0	b	-	70	59	-
"	Corunna	30.11	68	N	4	f	30.15	-	63	?	?	N	3	f	3	f	-	72	57	-
10	Corunna	30.13	64	N	3	f	30.16	+.01	62	60	-1	N	3	f	?7	f	-	72	57	-
11	Corunna	30.11	64	N	3	f	30.02	-.14	64	63	+2	NNW	3	f	?	f	-	66	61	-
12	Brest	29.80	62	S	3	o	29.88	-.05	60	57	+2	NNW	3	c	3	o	-	68	54	0.08
"	Belfort	29.91	76	Z	0	c	29.93	-.11	69	64	+6	Z	0	m	-	c	-	78	57	-
"	Nice	30.03	?	SE	4	bc	30.02	-.04	69	63	0	ENE	1	b	1	bc	-	81	61	-
"	Perpignan	29.93	71	NE	1	bc	29.95	-.07	70	67	-2	E	2	o	-	bc	-	79	65	-
13	Corunna	30.19	63	NW	1	b	30.19	?	58	55	?	NW	3	o	3	b	-	63	54	-
14	Corunna	30.20	65	NW	3	o	30.20	+.01	63	61	+5	NW	1	f	3	o	-	72	59	-
15	Corunna	30.23	64	NW	1	bc	30.20	.00	63	61	0	NW	1	f	3	bc	-	66	59	-
17	Corunna	30.15	66	W	3	f	30.12	-.02	66	65	+2	SSW	3	f	3	f	-	75	63	-
"	P. Delgada	30.29	70	NNW	3	c	30.27	-.03	71	64	+2	N	4	c	3	c	-	79	68	-
18	Corunna	30.11	66	NW	4	f	30.07	-.05	68	-	+2	N	1	m	0	f	-	70	63	-
19	Corunna	29.90	70	NW	3	b	29.88	-.19	70	64	+2	W	2	bc	2	b	-	77	63	-
"	Lisbon	30.03	67	NNE	3	b	30.26	+.28	72	68	+4	W	4	bc	-	b	-	72	64	-
20	Corunna	29.83	64	NW	1	r	29.88	.00	70	64	0	SSW	4	b	2	r	-	77	54	-
21	Corunna	29.91	73	S	4	b	29.89	+.01	70	66	0	SSW	3	bc	2	b	-	77	64	-
"	Lisbon	29.98	67	W	4	b	29.97	-.05	67	63	-2	WSW	3	o	-	b	-	72	64	-
22	Corunna	29.91	75	W	4	b	29.99	+.10	66	62	-4	S	3	c	2	b	-	77	67	-
24	Corunna	30.14	68	W	3	b	30.25	-.02	65	63	0	WNW	3	f	2	b	-	68	61	-
25	Corunna	30.29	66	NW	3	bc	30.27	+.02	66	61	+1	NNE	2	b	2	bc	-	68	59	-
26	Corunna	30.24	69	NNE	2	bc	30.19	-.08	68	63	+2	NE	1	b	2	b	-	73	61	-
27	Corunna	30.15	71	NE	4	f	30.18	-.01	70	66	+2	NE	1	f	2	b	-	80	55	-
28	Corunna	30.16	75	NE	3	b	30.16	-.02	66	63	-4	N	3	b	3	b	-	77	61	-
"	Lisbon	30.08	87	E	3	bc	30.06	-.01	71	65	-13	NE	3	b	-	bc	-	100	?	-
29	Corunna	30.14	70	N	5	f	30.08	-.08	70	65	+4	NE	3	f	3	f	-	75	64	-
30	The Helder	30.04	70	NE	5	f	30.02	-.06	72	68	+2	E	1	f	3	f	-	79	66	-
31	Corunna	30.01	69	W	4	f	30.10	+.08	60	59	-12	W	1	f	2	f	-	77	57	-
"	P. Delgada	30.18	69	N	2	o	30.21	+.05	70	66	0	NNE	2	o	1	o	-	77	66	0.04